

# Emettitore di Ticket

## Serie TG558

35-58 mm

### Manuale utente



Tutti i diritti riservati. È vietata la riproduzione totale o parziale del presente manuale in qualsiasi forma, sia essa cartacea o informatica. La CUSTOM ENGINEERING SPA e le risorse impiegate nella realizzazione del manuale, non si assumono nessuna responsabilità derivante dall'utilizzo dello stesso, garantendo che le informazioni contenute nel manuale sono state accuratamente verificate. Ogni suggerimento riguardo ad eventuali errori riscontrati o a possibili miglioramenti sarà particolarmente apprezzato. I prodotti sono soggetti ad un continuo controllo e miglioramento, pertanto la CUSTOM ENGINEERING SPA si riserva di modificare le informazioni contenute nel manuale senza preavviso.

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## PARTI DELLA STAMPANTE

### A Vista esterna TG558 con frontale plastico

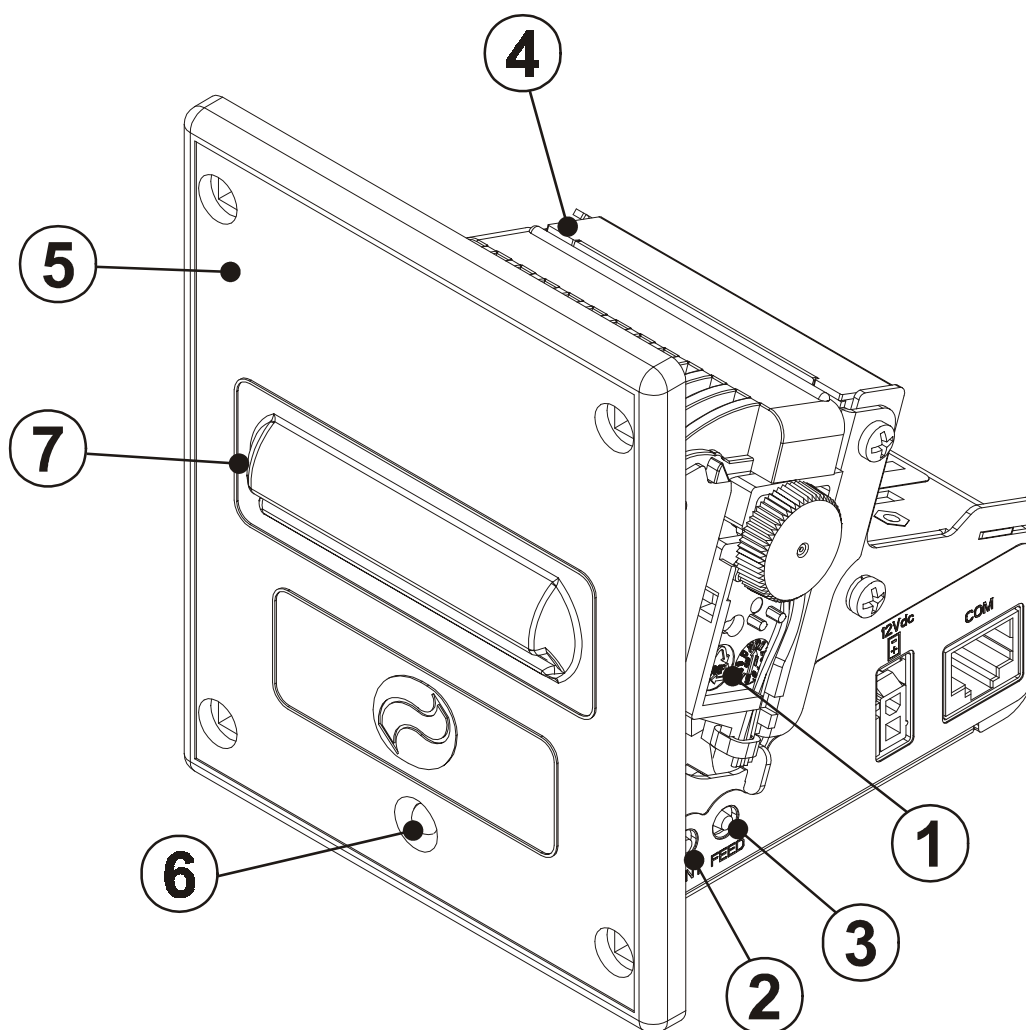
TG558-x35P <sup>(1)</sup>, TG558-x58P <sup>(1)</sup>, TG558-x35P-0001 <sup>(2)</sup>, TG558-x58P-0001 <sup>(2)</sup>

- 1- Meccanismo di stampa
- 2- Tasto "PRINT"
- 3- Tasto "FEED"
- 4- Telaio
- 5- Pannello frontale
- 6- Led
- 7- Uscita carta

<sup>(1)</sup> Il suffisso **x** indica i seguenti modelli :

- TG558-S35P (versione 35mm con interfaccia seriale RS232)
- TG558-S58P (versione 58mm con interfaccia seriale RS232)
- TG558-T35P (versione 35mm con interfaccia seriale TTL)
- TG558-T58P (versione 58mm con interfaccia seriale TTL)

<sup>(2)</sup> Il suffisso **0001** indica l'opzione real time clock.



**B. Vista esterna TG558 con frontale metallico**

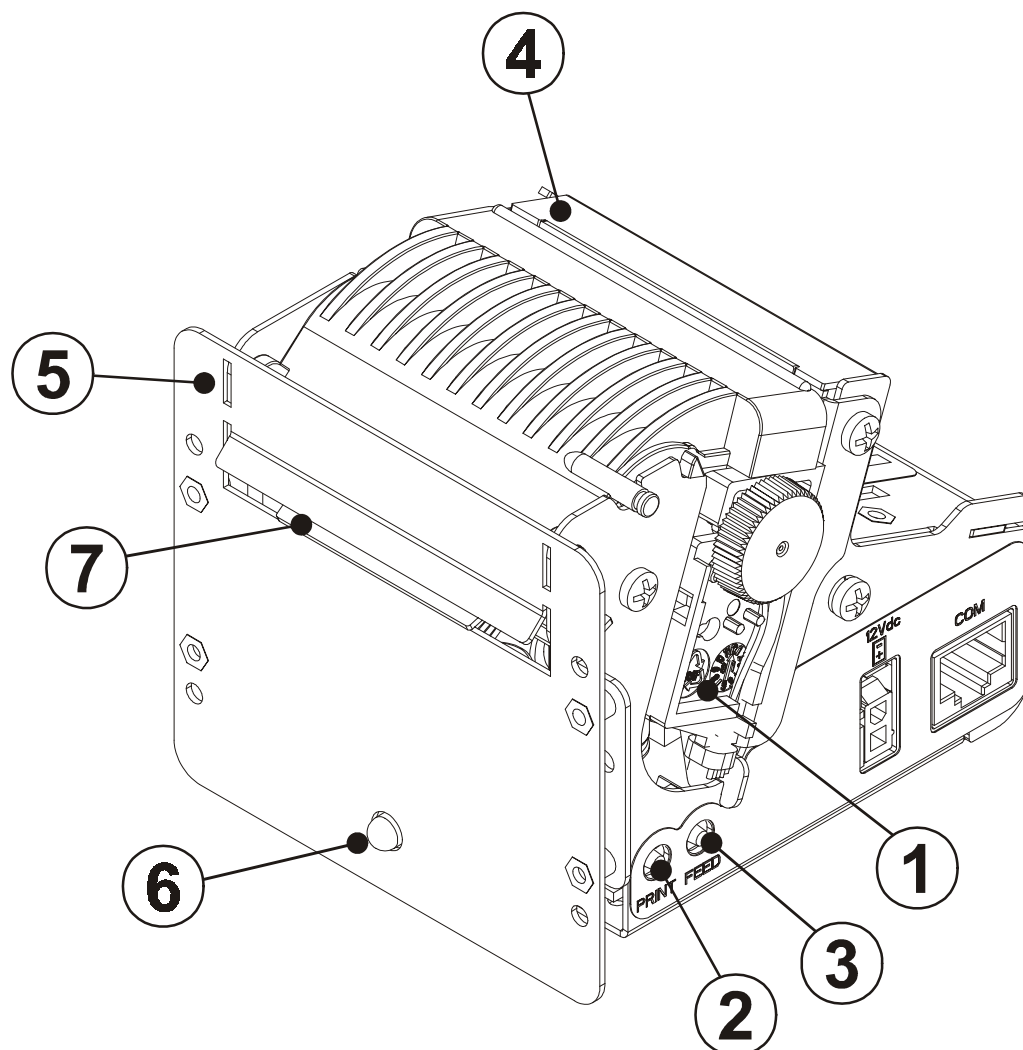
**TG558-x35M <sup>(1)</sup>, TG558-x58M <sup>(1)</sup>, TG558-x35M-0001 <sup>(2)</sup>, TG558-x58M-0001 <sup>(2)</sup>**

- 1- Meccanismo di stampa
- 2- Tasto "PRINT"
- 3- Tasto "FEED"
- 4- Telaio
- 5- Pannello frontale
- 6- Led
- 7- Uscita carta

<sup>(1)</sup> Il suffisso **x** indica i seguenti modelli :

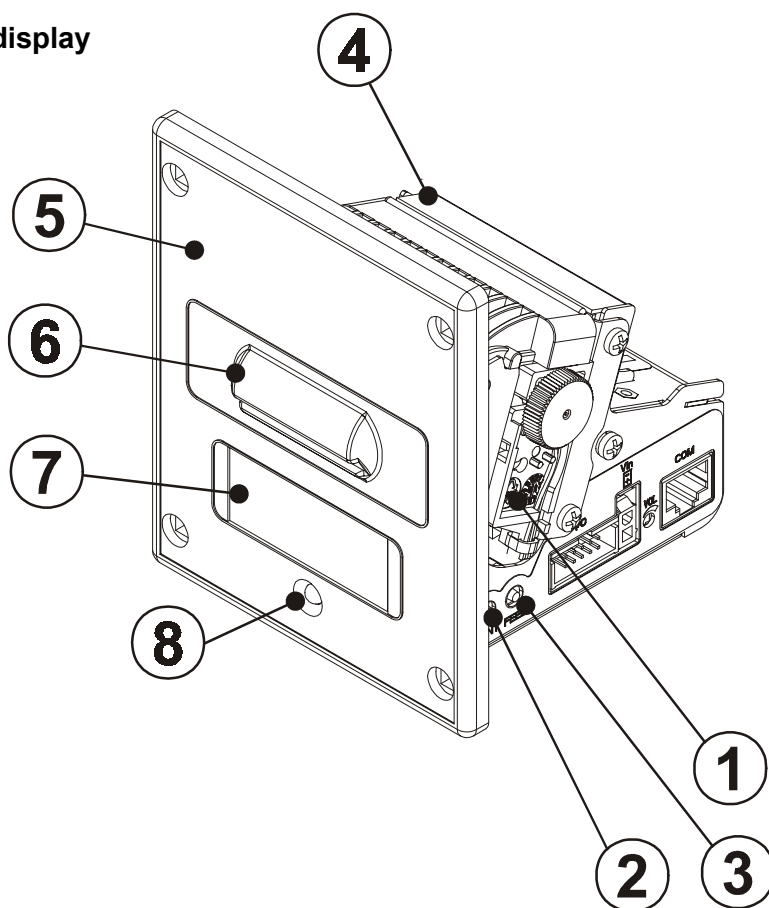
- TG558-S35M (versione 35mm con interfaccia seriale RS232)
- TG558-S58M (versione 58mm con interfaccia seriale RS232)
- TG558-T35M (versione 35mm con interfaccia seriale TTL)
- TG558-T58M (versione 58mm con interfaccia seriale TTL)

<sup>(2)</sup> Il suffisso **0001** indica l'opzione real time clock.



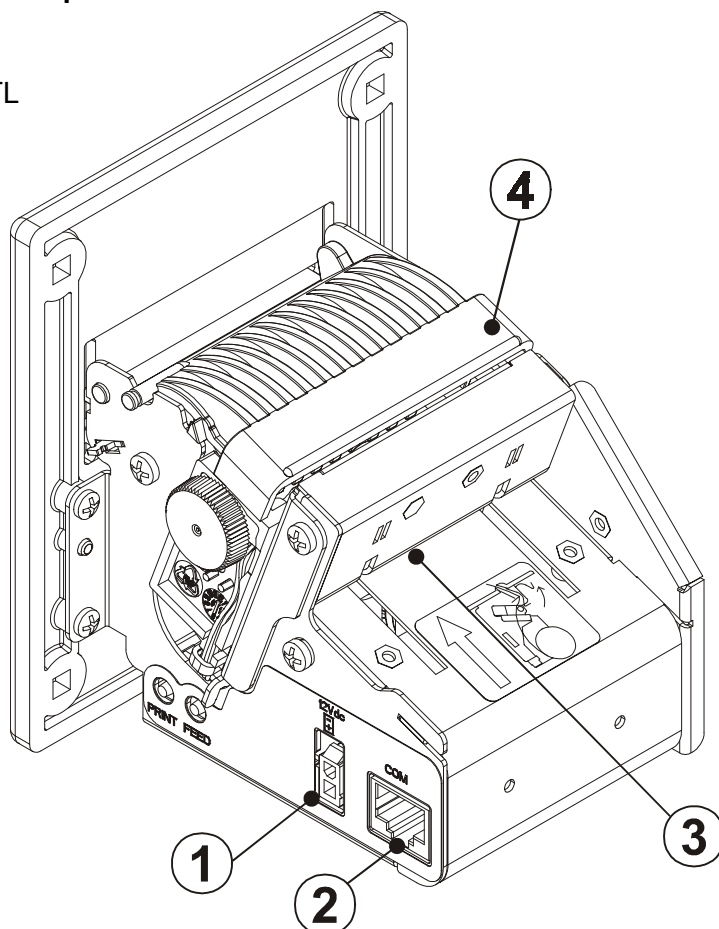
**C. Vista esterna TG558 con display  
TG558-35D**

- 1- Meccanismo di stampa
- 2- Tasto "PRINT"
- 3- Tasto "FEED"
- 4- Telaio
- 5- Pannello frontale
- 6- Uscita carta
- 7- Display
- 8- Led



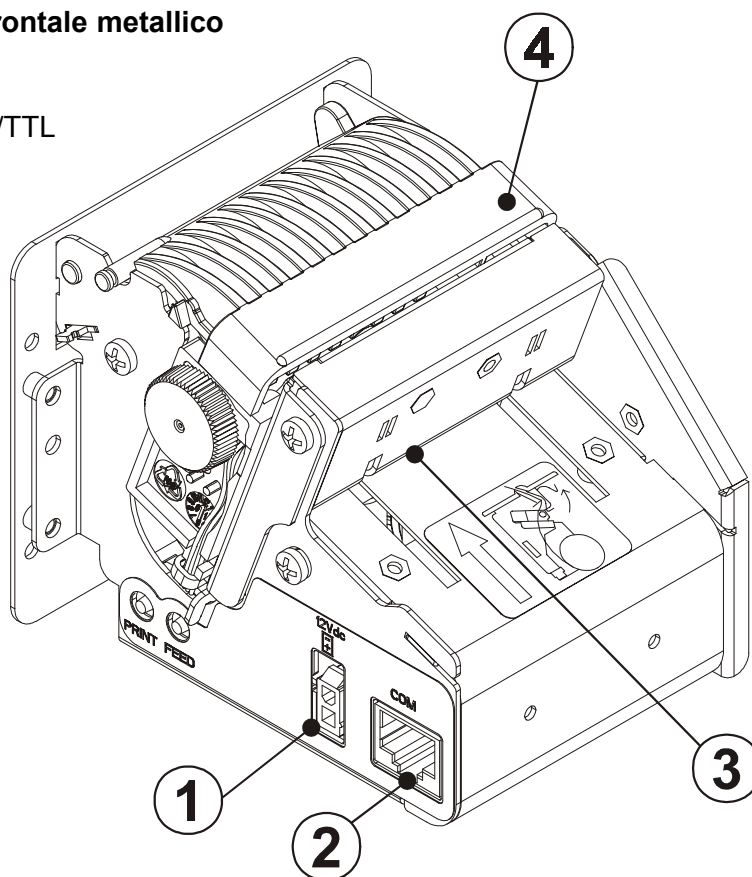
**D. Vista posteriore TG558 con frontale plastico**

- 1- Connettore di alimentazione
- 2- Connettore interfaccia seriale RS232 /TTL
- 3- Ingresso carta
- 4- Sportellino d'ispezione basculante



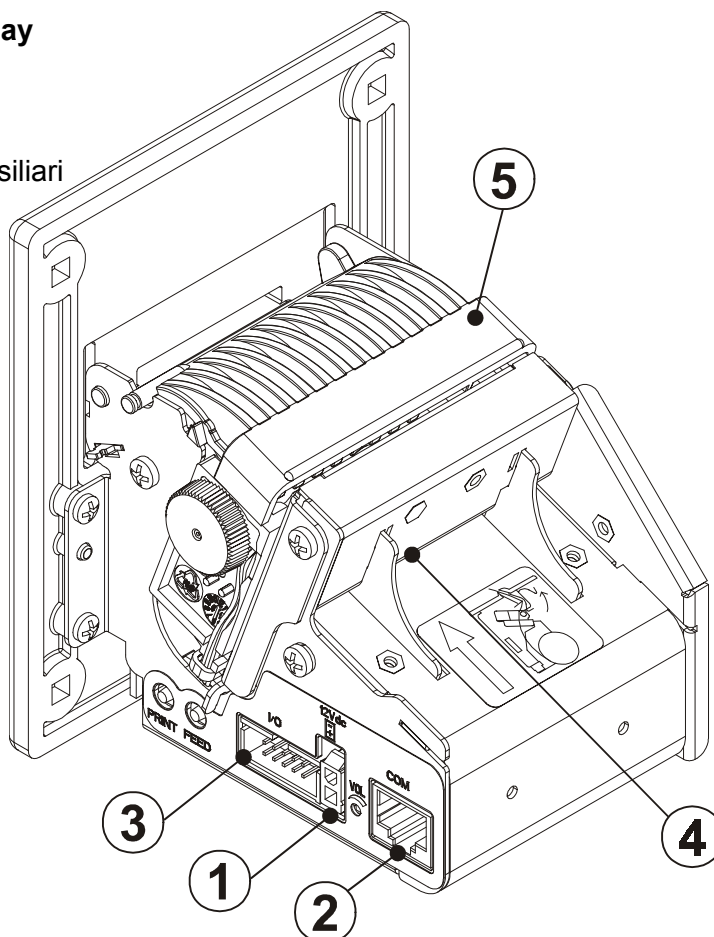
### E. Vista posteriore TG558 con frontale metallico

- 1- Connettore di alimentazione
- 2- Connettore interfaccia seriale RS232 /TTL
- 3- Ingresso carta
- 4- Sportellino d'ispezione basculante



### F. Vista posteriore TG558 con display

- 1- Connettore di alimentazione
- 2- Connettore interfaccia seriale TTL
- 3- Connettore di alimentazione e segnali ausiliari
- 4- Ingresso carta
- 5- Sportellino d'ispezione basculante

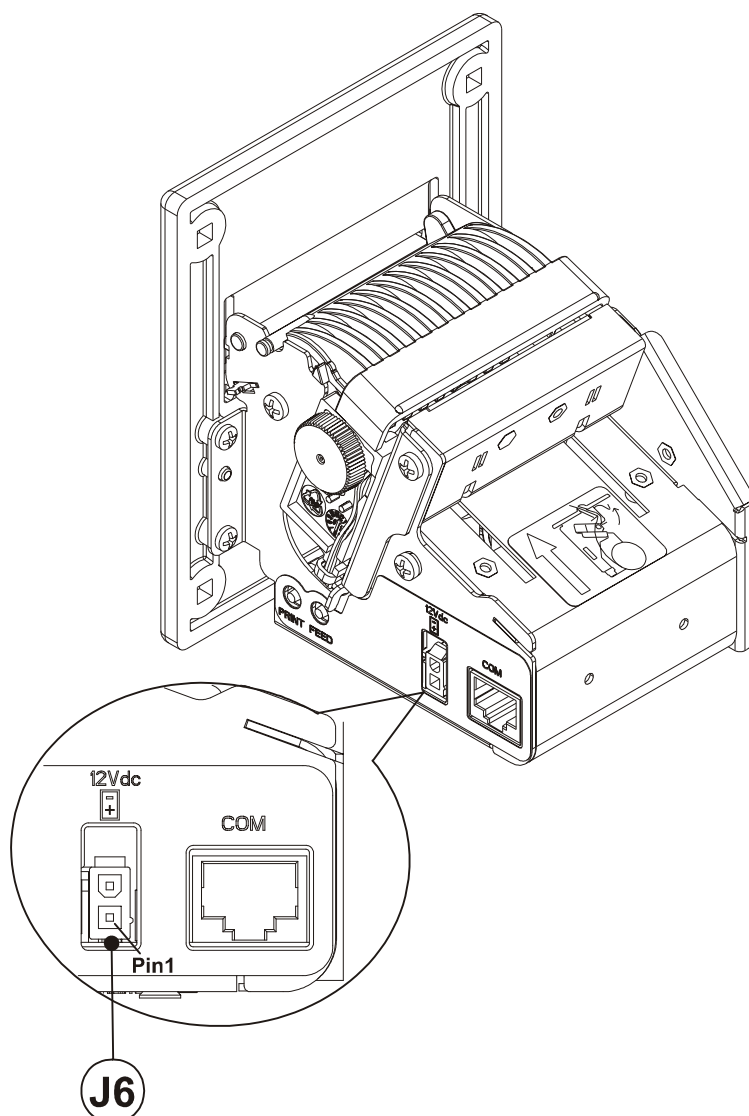


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# 1. INSTALLAZIONE ED UTILIZZO

## 1.1 CONNESSIONI

(Fig.1.1)



### 1.1.1 Alimentazione

La stampante è dotata, per l'alimentazione (per tutti i modelli), di un connettore molex serie 5569 2 poli maschio 90° (J6). I segnali sui pin del connettore di alimentazione sono i seguenti :

Tipo connettore :    Maschio :    Molex serie 5569 Verticale (no. 39-30-1020)  
                             Femmina :    Molex serie 5557 (no. 39-01-3022)

PIN	SEGNALE	DESCRIZIONE
1	+ 12 V	Alimentazione
2	GND	Segnale di massa



**ATTENZIONE:**  
Rispettare le polarità dell'alimentazione.

(Tab.1.1)

### 1.1.2 Connettore Input/Output per versione TG558 con display

La stampante è dotata, per l'alimentazione della gettoniera ed altoparlanti, e per segnali ausiliari, di un connettore a 10 poli (J1). I segnali sui pin del connettore di alimentazione sono i seguenti :

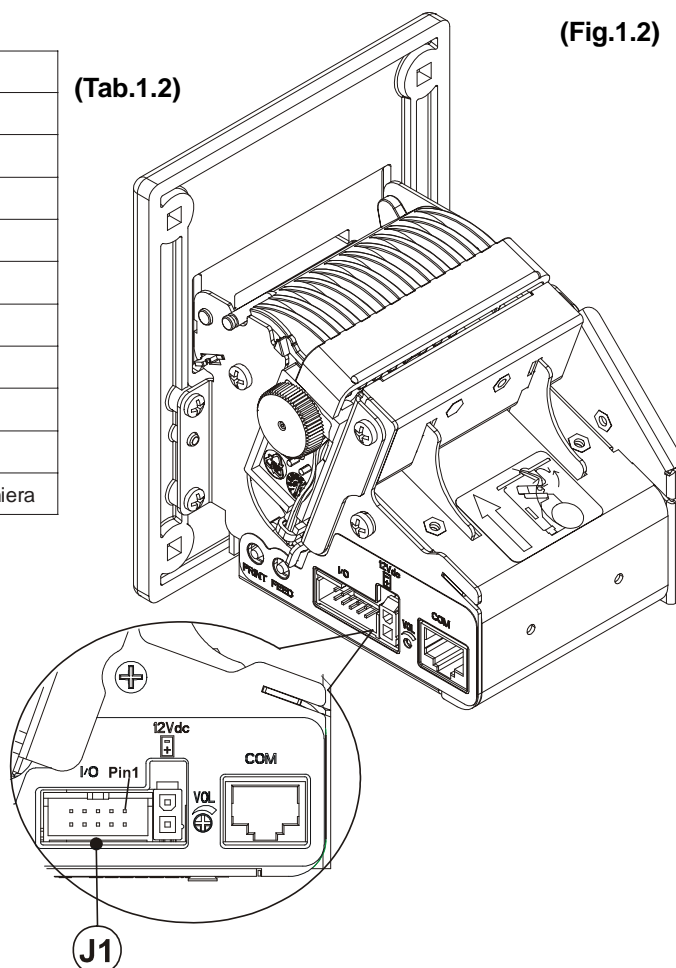
Tipo connettore :    Maschio :    Connettore flat 10 poli 90° (passo 2.54mm)  
                             Femmina :    Cavo flat 10 poli (passo 2.54mm)



PIN	SEGNALE	DESCRIZIONE
1	GND	Segnale di massa
2	GND	Segnale di massa
3	+ 12 V	Alimentazione
4	USCITA AUSILIARIA	Open Collector
5	+ 12 V	Alimentazione
6	COIN-IN1	Ingresso gettoniera
7	ALT1	Uscita altoparlante
8	COIN-IN2	Ingresso gettoniera
9	ALT2	Uscita altoparlante
10	INIBIT	Uscita abilitazione gettoniera

(Tab.1.2)

(Fig.1.2)



## 1.2 CONFIGURAZIONE

La stampante permette la configurazione dei parametri di default (vedi fig. 1.2). I parametri influenzati nella configurazione sono:

- \* PRINT MODE \*
- **Colonne:** 24 col.<sup>D</sup>, 40 col. e 42 col.
- **Modo di stampa:** Normal<sup>D</sup> o Reverse.
- **Dmensione carattere:** Piccolo<sup>D</sup>, Doppia larghezza (2 x Width), Doppia altezza (2 x Height), Espanso.
- **Avanzamento automatico:** CR disattivato o CR attivato<sup>D</sup>.
- **Auto Feed** <sup>(1)</sup>: attivato<sup>D</sup>, disattivato.
- **Stampa in Rosso** <sup>(2)</sup>: 0,1,2,3,4,5<sup>D</sup>,6,7.
- \* SERIAL MODE \*
- **Baud Rate:** 38400, 19200, 9600<sup>D</sup>, 4800, 2400, 1200, 600.
- **Protocol:**
  - 8, N, 1<sup>D</sup> (8 bit, senza parità, 1 bit di Stop)
  - 8, E, 1 (8 bit, parità pari, 1 bit di Stop)
  - 8, O, 1 (8 bit, parità dispari, 1 bit di Stop)
  - 7, N, 2 (7 bit, senza parità, 2 bit di Stop)
  - 7, E, 1 (7 bit, parità pari, 1 bit di Stop)
  - 7, O, 1 (7 bit, parità dispari, 1 bit di Stop)
- **Controllo di flusso:** CTS-RTS, XON-XOFF<sup>D</sup>.
- \* REAL TIME CLOCK \* <sup>(3)</sup>
- **Settaggio stampa secondi:** Abilita secondi, Disabilita secondi<sup>D</sup>.
- **Settaggio DST** <sup>(4)</sup>: Abilita DST<sup>D</sup>, Disabilita DST.

Note generali : I parametri indicati con il simbolo <sup>D</sup> sono quelli impostati di default.



<sup>(1)</sup> **NOTA:** Se la funzione è abilitata quando la stampante riceve un numero di caratteri pari al buffer di linea va a capo automaticamente.



<sup>(2)</sup> **NOTA:** utilizzando carta termica bicolore è possibile impostare varie tonalità di rosso.



<sup>(3)</sup> **NOTA:** Settaggio presente solo nelle versioni

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con RTCK (Real Time Clock) e nella versione con display.



<sup>(4)</sup> **NOTA:** Questo parametro abilita il cambio automatico dell'ora solare-legale.

## SETUP DEFAULT:

24 COLUMNS (font 16 x 24)  
PRINT DIR. = NORMAL  
PRINT MODE. = LITTLE  
CR-LF HONOR CR  
AUTO FEED = ENABLE  
RED INTENSITY = 5  
SERIAL PORT SELECTED  
BAUD RATE = 9600  
PROTOCOL = 8, N, 1  
FLOW CONTROL = XON-XOFF  
DISABLE SECONDS  
ENABLE DST

### 1.2.1 Configurazione dai tasti PRINT e FEED

Se all'accensione della stampante vengono mantenuti premuti contemporaneamente i tasti **PRINT** e **FEED**, la stampante si dispone in modo configurazione e stampa il primo parametro modificabile. Ad ogni successiva pressione del tasto **PRINT** si ottiene la variazione del parametro e la stampa del valore corrente dello stesso. Ottenuto il valore desiderato, premendo il tasto **FEED** si passa al parametro successivo, e così via. La stampa di un messaggio, quando sono scorsi tutti i parametri, segnala il termine del settaggio.

### 1.3 AUTOTEST

L'autotest si ottiene mantenendo premuto il tasto **FEED** all'accensione della stampante. L'esecuzione dell'autotest provoca la stampa del font caratteri e del logo memorizzato all'interno della stampante.

### 1.4 MANUTENZIONE

#### 1.4.1 Cambio rotolo carta

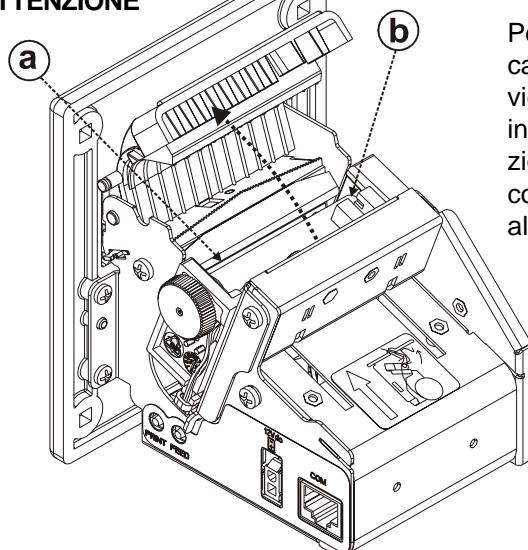
(Fig.1.3)

Ad ogni cambio carta, facendo riferimento alla fig. 1.4, occorre verificare quanto segue :

- sollevando lo sportellino, ispezionare il vano carta in prossimità della testina, nella zona contrassegnata dalla lettera a) per eliminare eventuali ritagli di carta rimasti dal rotolo precedentemente esaurito.



**ATTENZIONE**



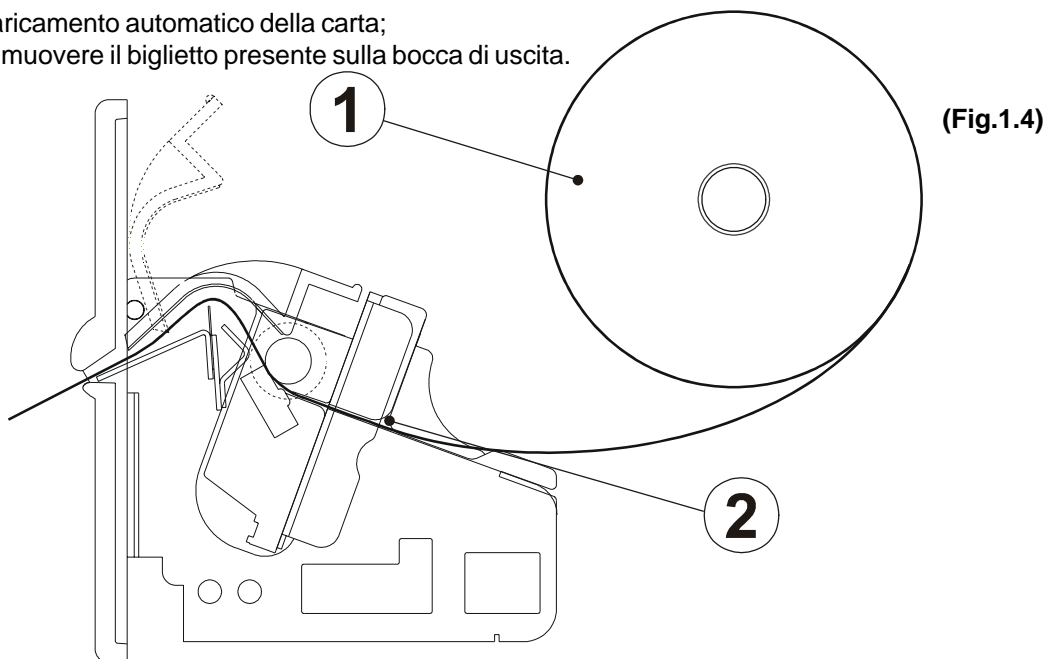
Periodicamente rimuovere l'accumulo di polvere di carta dal rullo di trascinamento carta e dalla zona vicina al sensore di uscita carta (vedi fig. 1.4 zona indicata dalla lettera b). Per effettuare questa operazione non utilizzare solventi chimici aggressivi ma si consiglia l'uso di un panno morbido inumidito con alcohol.

Per cambiare il rotolo di carta nella stampante procedere nel seguente modo :

- 1) Posizionare il rotolo di carta (1) rispettando il verso di rotazione indicato (fig.1.5);
- 2) Inserire l'estremità del rotolo di carta nelle fessura sul meccanismo di stampa (2) ed attendere il

## 1. INSTALLAZIONE ED UTILIZZO

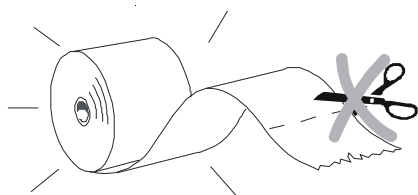
- 3) caricamento automatico della carta;  
Rimuovere il biglietto presente sulla bocca di uscita.



### ATTENZIONE:

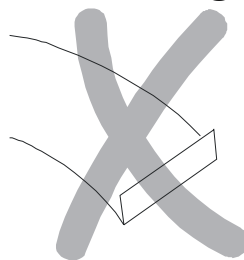
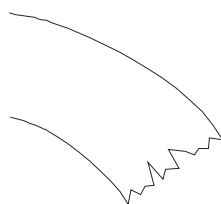
Prima di inserire la carta assicurarsi che il taglio non sia regolare.

**OK**



**NOT**

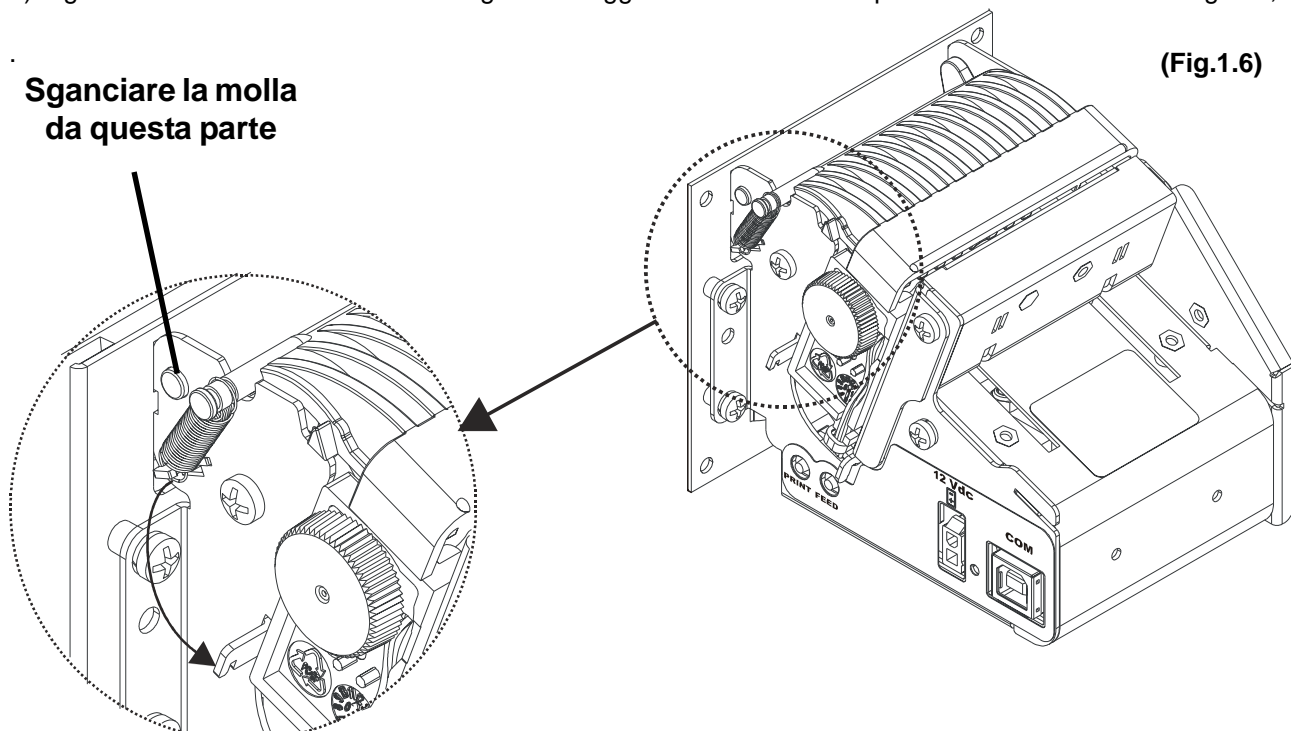
(Fig.1.5)



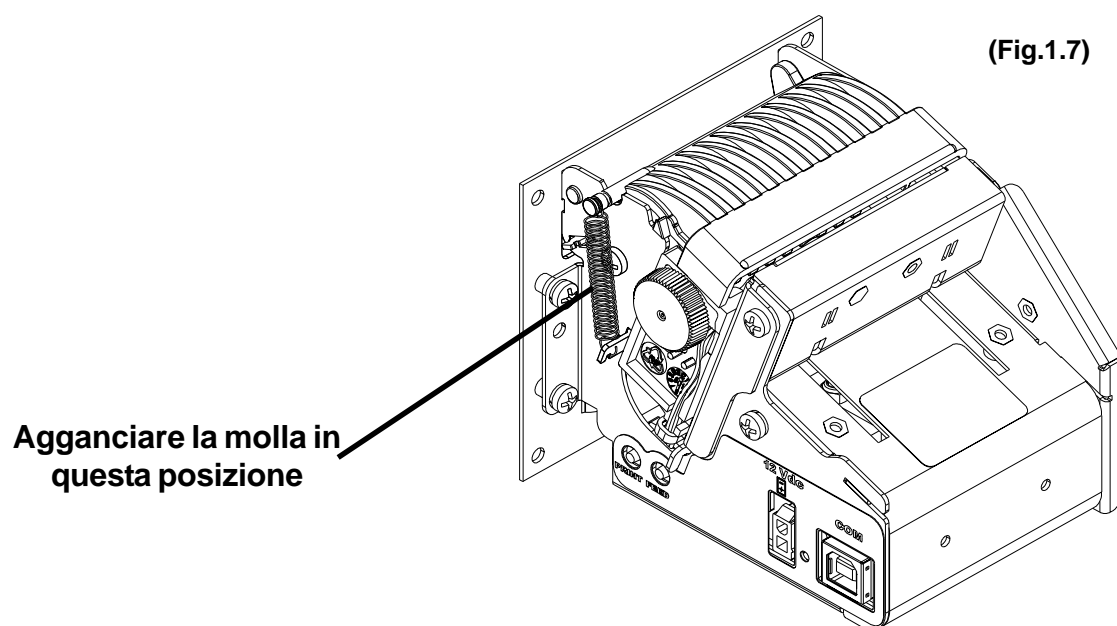
Per installare la stampante in posizione sottosopra procedere come segue :

- 1) Sganciare la molla come indicato in fig. 1.6 ed agganciarla nella nuova posizione come indicato in fig. 1.7;

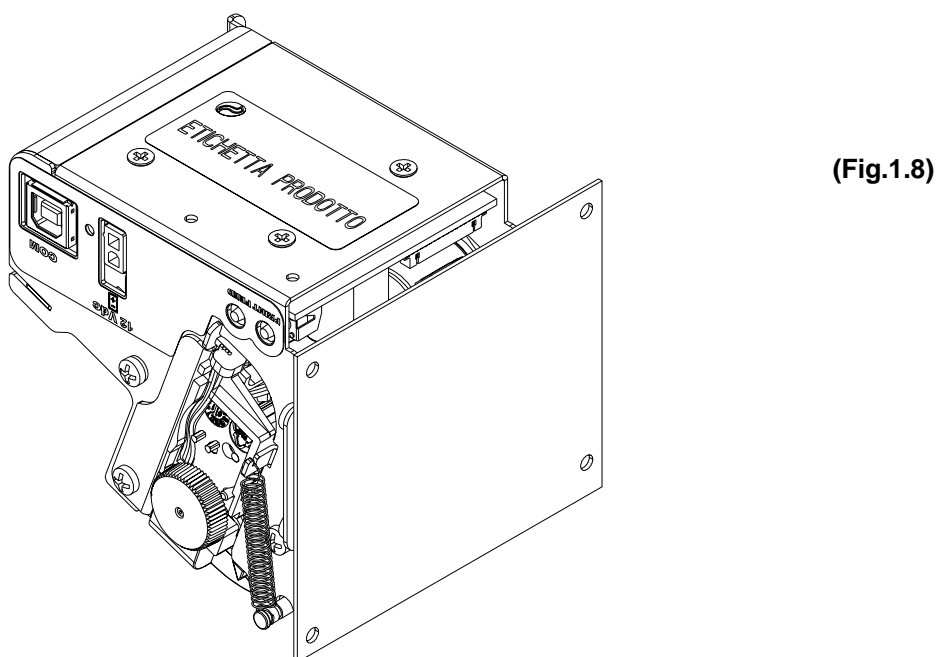
**Sganciare la molla  
da questa parte**



## 1. INSTALLAZIONE ED UTILIZZO



2) La stampante è pronta per essere installata in posizione sottosopra :

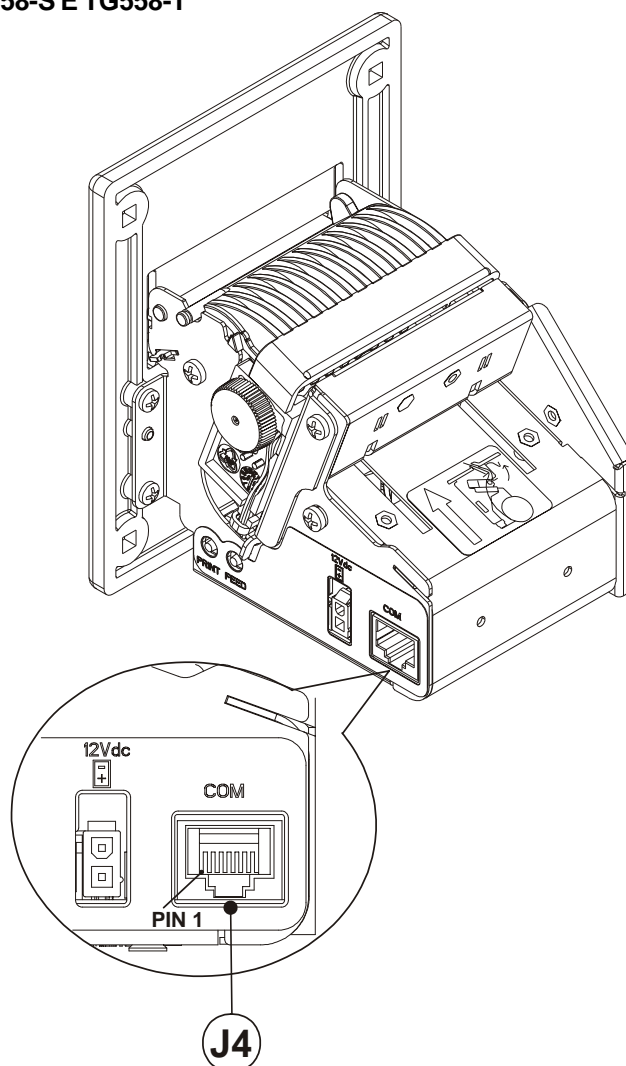


<sup>3)</sup> **NOTA:** Le operazioni descritte sono valide per tutti i modelli.

## 2. INTERFACCE

### 2.1 INTERFACCE MODELLI TG558-S E TG558-T

(Fig.2.1)



#### 2.1.1 Seriale RS232/TTL

La stampante con interfaccia seriale RS232/TTL dispone di un connettore RJ45 (J4 rif. fig. 2.1). Nella seguente tabella vengono descritti i segnali presenti sul connettore:

PIN	SEGNALE	DESCRIZIONE
1	VCC	+ 5V
2	GND	Segnale Massa
3	TXD	Trasmissione dati
4	RXD	Ricezione dati
5	RTS	Pronto all'invio
6	+VIN	+ 12V
7	N.C.	Non connesso
8	N.C.	Non connesso

(Tab.2.1)

Nel protocollo seriale TTL, i segnali che caratterizzano la comunicazione sono TD, RD e RTS se è stato selezionato il protocollo RTS/CTS, mentre se è stato selezionato il protocollo XON/XOFF i segnali sono TD e RD.

(Fig.2.2)

Formato di trasmissione



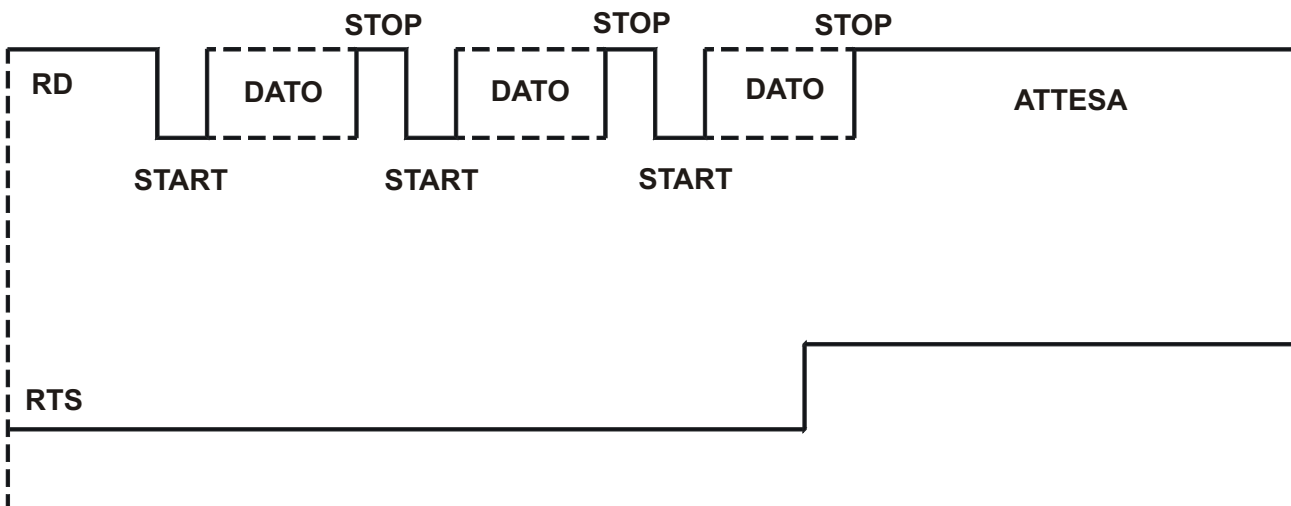
**NOTE :**

<sup>(1)</sup> **Bit 7** è presente solo se nel set-up è stato abilitato 8 bit per carattere ("lunghezza dati").

<sup>(2)</sup> **Bit di parità** è presente solo se nel set-up è stata abilitata la parità.

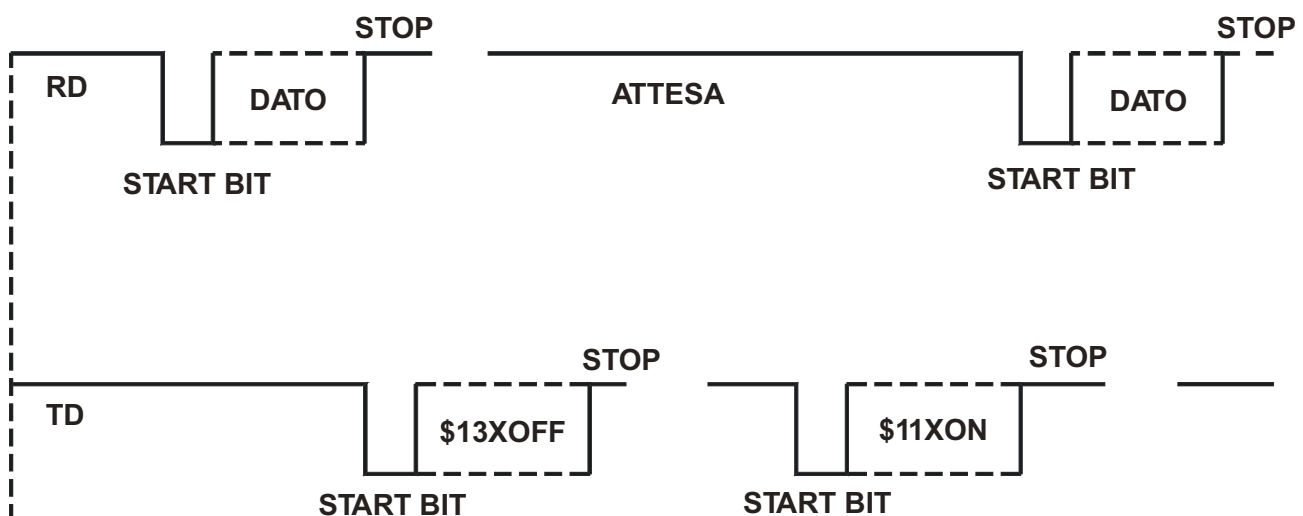
Protocollo  
RTS/CTS

(Fig.2.3)



Protocollo  
XON/XOFF

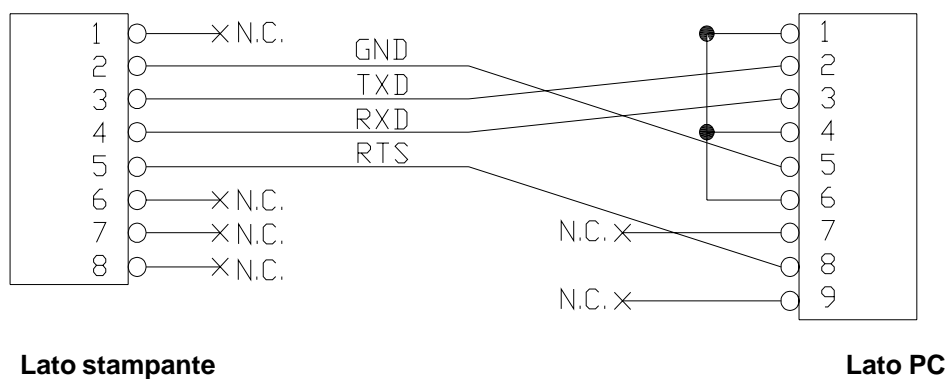
(Fig.2.4)



## 2. INTERFACCE

### 1.1.4 Connessione stampante-PC

Il seguente schema mostra la connessione tra stampante e PC tramite un connettore lato stampante 8 poli RJ45 maschio e lato PC connettore a vaschetta 9 poli femmina.



## 3. PRINTER FUNCTIONS

### 3.1 CONTROL CHARACTERS

#### LEGEND :

Symbol	Function
\$	indicates the representation of the command hexadecimal value (for example \$40 means HEX 40).
{ }	indicates an ASCII character not performable.
n, m, t, x, y	are additional/optional parameters that can have different values.

The command table lists all the commands for the management of the printer functions.

The commands can be transmitted to the printer at any moment, but they will only be carried out when the characters previously transmitted have been printed or the commands previously transmitted have been carried out. There are no commands with priority status; all the commands are carried out when the circular buffer is free to do so.

**COMMAND TABLE**

**(Table 3.1)**

HEX	ASCII	Description	Notes
\$00	NUL	Prints in small characters	
\$01	SOH	Prints in double width	
\$02	STX	Prints in double height	
\$03	ETX	Expanded printing	
\$04	EOT	Restores small character printing	
\$08	BS	Moving back of one character	
\$0A	LF	Forward feeds one line	
(n) \$0B	VT	Forward feeds (n) line	
\$0D	CR	Prints line buffer	
\$0F	SI	Sets CRLF mode	
\$10 \$04 (n)	DLE EOT n	Real-time status transmission	
\$11	DC1	Graphic mode	
\$12	DC2	Prints time and date	TG558-D,RTCK opt.
\$13	DC3	Sets time and date	TG558-D,RTCK opt.
\$14	DC4	Transmits time and date in serial	TG558-D,RTCK opt.
\$18	CAN	Cancel print data	
\$1B \$23 n	ESC # n	Transmit printer ID	
\$1B \$28 nL nH	ESC ( v nL nH	Set relative vertical print position	
\$1B \$2D (n)	ESC - n	Turn underline mode on/off	
\$1B \$30	ESC 0	Select 1/8-inch line spacing	
\$1B \$32	ESC 2	Select 1/6-inch line spacing	
\$1B \$33 (n)	ESC 3 n	Set line spacing using minimum units	
\$1B \$40	ESC @	Resets the printer	
\$1B \$41	ESC A	Executes [n] dots line feed	
\$1B \$44	ESC D	Enters date in print buffer	TG558-D,RTCK opt
\$1B \$49	ESC I	Selects Font A	
\$1B \$4A (n)	ESC J n	Print and feed paper	
(dd) \$1B \$4D	(dd) ESC M	Writes value (dd) in print mode	
\$1B \$4E	ESC N	Sets normal mode printing	
\$1B \$51	ESC Q	Enables underlining	
\$1B \$52	ESC R	Sets reverse mode printing	
\$1B \$54	ESC T	Enters time in print buffer	TG558-D,RTCK opt
\$1B \$55	ESC U	Enters date (mm:dd:yy) in print buffer	TG558-D,RTCK opt
\$1B \$57	ESC W	Prints graphic line of 200 dpi	
\$1B \$58	ESC X	Prints in red	



### 3. PRINTER FUNCTIONS

HEX	ASCII	Description	Notes
\$1B \$61	(dd) ESC a	Selects justification	
\$1B \$62	(dd) ESC b	Selects number of dot spaces	
\$1B \$63	ESC c	Management of bar code printing	
\$1B \$64 (n)	ESC d n	Print and feed paper n lines	
\$1B \$68	ESC h	Selects Font B	
\$1B \$69	ESC i	Selects Font B	
\$1B \$6D	ESC m	Transmits print mode in serial	
\$1B \$71	ESC q	Disables underlining	
\$1B \$72 (n)	ESC r n	Set/reset red printing mode	
\$1B \$73	ESC s	Transmits next character in serial	
\$1B \$76	ESC v	Transmit printer status	
\$1B \$78 n	ESC x n	Select speed/current mode	
\$1B \$7B (n)	ESC { n	Set/cancel upside-down character printing	
\$1B \$F0	ESC { }	Transmission of printer real time clock	TG558-D,RTCK opt
\$1B \$F1	ESC { }	Setting of printer real time clock	TG558-D,RTCK opt
\$1B \$FA n xL xH yH yL	ESC { } n xL xH yH yL	Print logo	
\$1D \$24 n	GS \$ n	Set absolute shift into a graphic line	
\$1D \$44 s1 s2 s3 s4	GS D s1 s2 s3 s4	Visualization on display of a string characters	Only for TG558-D
\$1D \$45 d1..d8	GS E d1..d8	Display management in graphic mode	Only for TG558-D
\$1D \$46 n	GS F n	Setting graphic display effects	Only for TG558-D
\$1D \$49 (n)	GS I n	Transmit printer ID	
\$1D \$4C n m t d1..dk	GS L n m t d1..dk	Receive graphic display effect from serial port	Only for TG558-D
\$1D \$57 nL nH	GS W nL nH	Set printing area width	
\$1D \$59 n	GS Y n	Sets height in printing	
\$1D \$5A n	GS Z n	Receive n bytes from serial port	
\$1D \$62 n	GS b n	Prints formatted barcode	
\$1D \$64 n	GS d n	Enable/Disable scrolling text	Only for TG558-D
\$1D \$6F n	GS o n	Management of output lines	Only for TG558-D
\$1D \$72 n	GS r n	Transmit status	
\$1D \$EB	GS { }	Receive, Save and Play melody	Only for TG558-D

**NOTE:** commands without specifications in the “Note” column are valid for all the models; otherwise the “Note” column indicate a command that is valid for a specific model as follows :

- TG558-D printer version with display;
- RTCK opt. printer version with real time clock option.

The following pages provide a more detailed description of each command.

\$00		
[Name]	<b>Small character printing</b>	
[Format]	ASCII	NUL
	Hex	00
	Decimal	0
[Description]	The printer prints in small characters (normal)	

### 3. PRINTER FUNCTIONS

[Notes]	<ul style="list-style-type: none"><li>• The commands \$00 - \$04 do not cancel the print buffer</li><li>• The commands which modify the direction of the characters are only active at the beginning of the line</li></ul>
[Default]	Setting the "Print mode" parameter in the printer set-up
[Reference]	<b>\$01, \$02, \$03, \$04, \$1D \$21, \$1B \$4D</b>
[Example]	

#### \$01

[Name]	<b>Double width printing</b>
[Format]	ASCII          SOH Hex              01 Decimal         1
[Description]	The printer prints in double width format
[Notes]	<ul style="list-style-type: none"><li>• The commands \$00 - \$04 do not cancel the print buffer</li><li>• The commands which modify the direction of the characters are only active at the beginning of the line</li></ul>
[Default]	Setting the "Print mode" parameter in the printer set-up
[Reference]	<b>\$00, \$02, \$03, \$04, \$1D \$21, \$1B \$4D</b>
[Example]	

#### \$02

[Name]	<b>Double height printing</b>
[Format]	ASCII          STX Hex              02 Decimal         2
[Description]	The printer prints in double height format.
[Notes]	<ul style="list-style-type: none"><li>• The commands \$00 - \$04 do not cancel the print buffer</li><li>• The commands which modify the direction of the characters are only active at the beginning of the line</li></ul>
[Default]	Setting the "Print mode" parameter in the printer set-up
[Reference]	<b>\$00, \$01, \$03, \$04, \$1D \$21, \$1B \$4D</b>
[Example]	

#### \$03

[Name]	<b>Expanded printing</b>
[Format]	ASCII          ETX Hex              03 Decimal         3
[Description]	The printer prints in expanded character mode
[Notes]	<ul style="list-style-type: none"><li>• commands \$00 - \$09 do not cancel the print buffer</li><li>• the commands which modify the dimensions of the characters are only active at the beginning of the line</li></ul>
[Default]	Setting the "Print mode" parameter in the printer set-up
[Reference]	<b>\$00, \$01, \$02, \$04, \$1D \$21, \$1B \$4D</b>
[Example]	

#### \$04

[Name]	<b>Restore small character printing</b>	
[Format]	ASCII	EOT
	Hex	04
	Decimal	4
[Description]	The printer resumes printing with small characters	
[Notes]	<ul style="list-style-type: none"> <li>• The commands \$00 - \$09 do not cancel the print buffer</li> <li>• the commands which modify the dimensions of the characters are only active at the beginning of the line</li> </ul>	
[Default]	Setting the "Print mode" parameter in the printer set-up	
[Reference]	<b>\$00, \$01, \$02, \$03, \$1D \$21, \$1B \$4D</b>	
[Example]		

#### \$07

[Name]	<b>Cancel print data buffer</b>	
[Format]	ASCII	BEL
	Hex	07
	Decimal	7
[Description]	Deletes all the print data in the current print buffer.	
[Notes]	<ul style="list-style-type: none"> <li>• If data that existed in the previously specified printing area also exists in the currently specified printing area, it is deleted.</li> </ul>	
[Default]		
[Reference]		
[Example]		

#### BS

[Name]	<b>Moving back of one character</b>	
[Format]	ASCII	BS
	Hex	08
	Decimal	8
[Description]	Moves print position to previous character.	
[Notes]	This command can put two characters at the same position.	
[Default]		
[Reference]		
[Example]		

#### \$0A

[Name]	<b>Forward feeds one line</b>	
[Format]	ASCII	LF
	Hex	0A
	Decimal	10
[Description]	Forward feeds one line equivalent to a line of print	
[Notes]	<ul style="list-style-type: none"> <li>• This command brings about the printing of the contents of the line buffer</li> </ul>	
[Default]		
[Reference]	<b>\$1B \$32, \$1B \$33</b>	
[Example]		

### 3. PRINTER FUNCTIONS

#### (n) \$0B

[Name]	<b>Forward feeds (n) lines</b>	
[Format]	ASCII	VT
	Hex	0B
	Decimal	11
[Description]	Carries out the number of line feeds specified in (n)	
[Notes]	<ul style="list-style-type: none"> <li>• The number must be ASCII and between 0 and 9 (when n=0 the command is ignored)</li> <li>• This command clears the line buffer</li> </ul>	
[Default]		
[Reference]	<b>\$0A</b>	
[Example]	To forward feed fast, 5 lines at a time: \$35 \$0B (or 5 and the command \$0B)	

#### CR

[Name]	<b>Print and carriage return</b>	
[Format]	ASCII	CR
	Hex	0D
	Decimal	13
[Description]	When autofeed is "CR enabled", this command functions in the same way as <b>\$0A</b> , otherwise it is disregarded.	
[Notes]	<ul style="list-style-type: none"> <li>• Sets the print position to the beginning of the line.</li> </ul>	
[Default]	See "Autofeed in setup" parameter.	
[Reference]	<b>\$0A</b>	
[Example]		

#### \$0F

[Name]	<b>Set CRLF mode</b>	
[Format]	ASCII	SI
	Hex	0F
	Decimal	15
[Description]	Inhibits the command \$0D maintaining enabled only the command \$0A for printing	
[Notes]	<ul style="list-style-type: none"> <li>• To disable this option, reset the printer</li> <li>• This command clears the line buffer</li> <li>• On switching on the default value is in the Option Register</li> </ul>	
[Default]	Setting in the option register by means of the front keys	
[Reference]	<b>\$0D</b>	
[Example]		

#### DLE EOT n

[Name]	<b>Real-time status transmission</b>			
[Format]	ASCII	DLE	EOT	n
	Hex	10	04	n
	Decimal	16	4	n
[Range]	$1 \leq n \leq 6$			
[Description]	Transmits the selected printer status specified by <i>n</i> in real time according to the following parameters:			

### 3. PRINTER FUNCTIONS

- n = 1      transmit printer status
- n = 2      transmit off-line status
- n = 3      transmit error status
- n = 4      transmit paper roll sensor status
- n = 5      transmit paper sensors status
- n = 6      transmit input/output status

[Notes]

- This command is executed when the data buffer is full.
- This status is transmitted whenever data sequence \$10 \$04 n is received ( $1 \leq n \leq 6$ ).

[Default]

[Reference]

See tables below.

[Example]

n=1: Printer status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED
1	-	-	-	RESERVED
2	-	-	-	RESERVED
3	Off	00	0	On-line.
	On	08	8	Off-line.
4	-	-	-	RESERVED
5	-	-	-	RESERVED
6	Off	00	0	Drag paper motor off
	On	40	64	Drag paper motor on
7	-	-	-	RESERVED

n=2: Off-line status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2	Off	00	0	REPORT button not pressed
	On	04	4	REPORT button pressed
3	Off	00	0	FEED button not pressed
	On	08	8	FEED button pressed
4	-	-	-	RESERVED.
5	Off	00	0	Paper present.
	On	20	32	Paper end.
6	Off	00	0	No error.
	On	40	64	Error.
7	-	-	-	RESERVED.

n=3: Error status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2	-	-	-	RESERVED.
3	-	-	-	RESERVED.
4	-	-	-	RESERVED.
5	-	-	-	RESERVED.
6	Off	00	0	No auto-recoverable error.
	On	40	64	Auto-recoverable error.
7	-	-	-	RESERVED.

### 3. PRINTER FUNCTIONS

n=4: Paper roll sensor status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2	-	-	-	RESERVED.
3	-	-	-	RESERVED.
4	-	-	-	RESERVED.
5,6	-	-	-	RESERVED
7	-	-	-	RESERVED.

n=5: Paper sensor status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2,3	Off	00	0	Paper end sensor Paper present
	On	0C	12	The paper end is detected by the sensor
4	-	-	-	RESERVED.
5, 6	Off	00	0	Near Paper end sensor Paper present
	On	40	64	The near paper end is detected by the sensor
7	-	-	-	RESERVED.

n=6: Input/Output status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2	Off	00	0	COIN 1 status at low level
	On	04	4	COIN 1 status at high level
3	Off	00	0	COIN 2 status at low level
	On	08	8	COIN 2 status at high level
4	-	-	-	RESERVED.
5	Off	00	0	INHGET status at low level
	On	20	32	INHGET status at high level
6	Off	00	0	AUXOUT status at low level
	On	40	64	AUXOUT status at high level
7	-	-	-	RESERVED.

**\$11**

[Name]	<b>Graphic mode</b>	
[Format]	ASCII	DC1
	Hex	11
	Decimal	17
[Description]	<p>Enables graphic mode:</p> <p>a line in 24 column mode corresponds to 144 horizontal dots divided into 24 blocks of 6 dots each; a line in 40 column mode corresponds to 240 horizontal dots divided into 40 blocks of 6 dots each.</p>	
[Notes]	<p>To obtain graphic printing, enter the command \$11 at the beginning of each line. The format of the byte in graphic configuration is:</p>	

### 3. PRINTER FUNCTIONS

<b>X</b>	<b>R</b>	<b>P6</b>	<b>P5</b>	<b>P4</b>	<b>P3</b>	<b>P2</b>	<b>P1</b>
D7	D6	D5	D4	D3	D2	D1	D0

where:

**X** is not used (0 is recommended);

**R** must be fixed at level 1;

**P1,...,P6** are the graphic dot data (1 prints, 0 does not print).

The P6 bit of the string of dots transmitted is printed on the left and the others follow from left to right (P5, P4, P3, P2, P1) as shown:

<b>1st byte →</b>	<b>2nd byte →</b>	<b>3rd byte →</b>
P6 P5 P4 P3 P2 P1	P6 P5 P4 P3 P2 P1	P6 P5 P4 P3 P2 P1

[Default]

[Reference]

[Example]

To print a line of dots, transmit:

\$11, n x \$7F (where n is the number of characters per line), \$0D.

To print an empty line, transmit:

\$11, \$40, \$0D.

#### \$12

[Name]

**Print time and date**

[Format]

ASCII	-
Hex	12
Decimal	18

[Description]

Prints the time and date in the following format:

hh : mm dd - mm -yy

If seconds printing is enabled, the format will be:

hh : mm : ss dd - mm -yy

[Notes]

- The command resets the line
- This command is present only in the printer version with display (TG558-D) and RTCK option.

[Default]

[Reference]

**\$13, \$14**

[Example]

#### \$13

[Name]

**Set time and date**

[Format]

ASCII	-
Hex	13
Decimal	19

[Description]

This command sets the time and date in two possible ways :

the first uses 24 hour clock and the second the 12-hour am/pm clock. In the first case, transmits the 10 ASCII characters representing the time and the date followed by \$13 and in the second case transmits the 10 ASCII characters representing the time and the date preceded by "A" or "P" and followed by \$13.

[Notes]

- It is advisable to transmit the command \$0D first, in order to empty the print buffer.
- This command is present only in the printer version with display (TG558-D) and with RTCK option.

[Default]

### 3. PRINTER FUNCTIONS

[Reference] **\$12, \$14**

[Example] To set the time 12:45 on 19-01-93, transmit

1	2	4	5	1	9	0	1	9	3	\$13
\$31	\$32	\$34	\$35	\$31	\$39	\$30	\$31	\$39	\$33	\$13

To set the time A 12:45 on 19-01-93, transmit

A	1	2	4	5	1	9	0	1	9	3	\$13
\$41	\$31	\$32	\$34	\$35	\$31	\$39	\$30	\$31	\$39	\$33	\$13

#### \$14

[Name] **Transmit the time and date in serial**

[Format] ASCII -  
Hex 14  
Decimal 20

[Description] Transmit the time and date on serial port with ASCII format (11 ASCII characters) :  
hours/minutes/day/mont h/year + (CR) \$0D

[Notes] • This command is present only in the printer version with display (TG558-D) and RTCK option.

[Default]

[Reference] **\$13, \$14**

[Example]

#### \$1B \$23 n

[Name] **Transmit printer ID**

[Format] ASCII ESC # n  
Hex 1B 23 n  
Decimal 27 73 n

[Range]  $1 \leq n \leq 3, 49 \leq n \leq 51$

[Description] Transmits the printer ID specified by *n* follows:

n	Printer ID	Specification
1, 49	Printer model ID	\$68 (58mm model) \$69 (35mm model)
2, 50	Not used	Fixed on \$00
3, 51	ROM version ID	Depends on version ROM (4 char)

[Notes] • This command is executed when the data is processed in the data buffer. Therefore, there could be a time lag between command reception and data transmission, depending on data buffer status.

[Default]

[Reference]

[Example]

#### \$1B \$28 \$76 nL nH

[Name] Set relative vertical print position

[Format] ASCII ESC ( v nL nH  
Hex 1B 28 76 nL nH  
Decimal 27 10 118 nL nH



### 3. PRINTER FUNCTIONS

[Range]	$0 \leq nL \leq 255$ $0 \leq nH \leq 255$
[Description]	Sets the print vertical position based on the current position by using the horizontal or vertical motion unit. • This command sets the distance from the current position to $[(nL + nH \times 256) \times (\text{horizontal or vertical motion unit})]$ .
[Notes]	• When the starting position is specified by N motion unit to the bottom: $nL + nH \times 256 = N$ • When the starting position is specified by N motion unit to the top (negative direction), use the complement of 65536: $nL + nH \times 256 = 65536 - N$ • In standard mode, the vertical motion unit is used.
[Default]	
[Reference]	
[Example]	

#### **\$1B \$30**

[Name]	<b>Select 1/8-inch line spacing.</b>		
[Format]	ASCII	ESC	0
	Hex	1B	30
	Decimal	27	48
[Description]	Selects 1/8-inch line spacing.		
[Notes]			
[Default]			
[Reference]	<b>\$1B \$32, \$1B \$33</b>		
[Example]			

#### **\$1B \$32**

[Name]	<b>Set line spacing at 1/6 inch.</b>		
[Format]	ASCII	ESC	2
	Hex	1B	32
	Decimal	27	50
[Description]	Selects 1/6 inch line spacing.		
[Notes]			
[Default]			
[Reference]	<b>\$1B \$30, \$1B \$33</b>		
[Example]			

#### **\$1B \$33 n**

[Name]	<b>Set line spacing.</b>			
[Format]	ASCII	ESC	3	n
	Hex	1B	33	n
	Decimal	27	51	n
[Range]	$0 \leq n \leq 255$			
[Description]	Sets the line spacing at $[n \times (\text{vertical or horizontal motion unit})]$ inches.			
[Notes]	• Changing the horizontal or vertical motion unit does not affect the current line spacing. • However, the value cannot be less than the minimum vertical movement amount.			

### 3. PRINTER FUNCTIONS

- In standard mode, the vertical motion unit is used.
- The maximum line spacing is  $n = 255$  ( $\approx 32\text{mm}$ ).

[Default]  $n = 32$  (1/6 inch)  
 [Reference] **\$1B \$30, \$1B \$32**  
 [Example]

#### ESC @

[Name] **Initialize printer**  
 [Format] ASCII ESC @  
 Hex 1B 40  
 Decimal 27 64  
 [Description] Clears the data in the print buffer and resets the printer mode to that in effect when power was turned on.  
 [Notes]
 

- The data in the receiver buffer is not cleared.
- The macro definitions are not cleared.

 [Default]  
 [Reference]  
 [Example]

#### \$1B \$41 [nH] [nL]

[Name] **Executes [n] dots line feed**  
 [Format] ASCII ESC A nH nL  
 Hex 1B 41 nH nL  
 Decimal 27 65 nH nL  
 [Description] Executes [N] dots line feed where  $N = 256 \times nL + nH$ .  
 [Notes]
 

- 1 mm is equivalent to 8 dot line.

 [Default]  
 [Reference]  
 [Example] To executes a 40 mm of feed transmit :  
**\$1B \$41 \$01 \$40** (or the ESC A command and the value 40mm x8 dot).

#### \$1B \$44

[Name] **Enters the date in the print buffer**  
 [Format] ASCII ESC D  
 Hex 1B 44  
 Decimal 27 68  
 [Description] Enters in the buffer the date of the calendar clock installed inside the printer, in the following format : dd - mm - yy .  
 [Notes]
 

- The date is printed in 8 characters: if there is not enough space in the buffer, it will not be printed.
- It does not zero-set the line buffer
- This command is present only in the printer version with display (TG558-D) and RTCK option.

 [Default]  
 [Reference] **\$1B \$54, \$1B \$55**  
 [Example] If you wish to write :

DATE : 11-09-93 TEST OK

### 3. PRINTER FUNCTIONS

transmit                      DATE : \$1B \$44 TEST TEST OK \$0D  
to print just the date      \$1B \$44 \$0D

#### \$1B \$49

[Name]                      **Selects Font A**

[Format]                  ASCII                  ESC                  I  
Hex                      1B                  49  
Decimal                27                  73

[Description]            After this command is received Font A is selected and the printer is ready to use this configuration. The number of columns by row is indicated as follows :

TG558	Font A
58mm model	24 columns
35mm model	17 columns

[Notes]

[Default]

[Reference]              **\$1B \$69**

[Example]

#### \$1B \$4A n

[Name]                      **Print and feed paper.**

[Format]                  ASCII                  ESC    J                  n  
Hex                      1B                  4A                  n  
Decimal                27                  74                  n

[Range]                     $0 \leq n \leq 255$

[Description]            Prints the data in the print buffer and feeds the paper [ n × ( vertical or horizontal motion unit) inches.

[Notes]                    • After printing is over, this command sets the print starting position at the beginning of the line.  
• The paper feed amount set by this command does not affect the values set by **\$1B \$32** or **\$1B \$33**.  
• In standard mode, the vertical motion unit is used.  
• The maximum paper feed amount is 31.8 mm.

[Default]

[Reference]

[Example]

#### (dd) \$1B \$4D

[Name]                      **Writes the value (dd) in the print mode.**

[Format]                  ASCII                  dH                  dL                  ESC    M  
Hex                      dH                  dL                  1B                  4D  
Decimal                dH                  dL                  27                  77

[Description]            Sets the print mode default parameters

**\$00** small characters

**\$01** double width printing

**\$02** double height printing

**\$03** expanded printing

[Notes]                    • The setting is stored in EEPROM

### 3. PRINTER FUNCTIONS

[Default]	Setting by means of the front keys
[Reference]	<b>\$1B \$6D</b>
[Example]	For double height printing, transmit : \$30 \$32 \$1B \$4D

#### **\$1B \$4E**

[Name]	<b>Set printing in NORMAL</b>		
[Format]	ASCII	ESC	N
	Hex	1B	4E
	Decimal	27	78
[Description]	Selects printing in NORMAL mode.		
[Notes]	• Setting remains until next set.		
[Default]	Setting the "Print mode" parameter in the printer set-up.		
[Reference]	<b>\$1B \$52</b>		
[Example]			

#### **\$1B \$51**

[Name]	<b>Enable underlined printing</b>		
[Format]	ASCII	ESC	Q
	Hex	1B	51
	Decimal	27	81
[Description]	After this command has been received, the characters are printed underlined.		
[Notes]			
[Default]			
[Reference]	<b>\$1B \$71</b>		
[Example]			

#### **\$1B \$52**

[Name]	<b>Set printing in REVERSE</b>		
[Format]	ASCII	ESC	R
	Hex	1B	52
	Decimal	27	82
[Description]	Set printing in REVERSE mode: the ticket comes out from the printer with the strings straight and orientated from left to right .		
[Notes]			
[Default]	Setting the "Print mode" parameter in the printer set-up.		
[Reference]	<b>\$1B \$4E</b>		
[Example]			

#### **\$1B \$54**

[Name]	<b>Enters the time in the print buffer</b>		
[Format]	ASCII	ESC	T
	Hex	1B	54
	Decimal	27	84
[Description]	Enters in the buffer the time of the calendar clock installed inside the printer, in the following format : hh : mm.		
[Notes]	• The time is printed in 5 characters: if the seconds option is enabled, in 8 characters: if		

### 3. PRINTER FUNCTIONS

there is not enough space in the buffer, it will not be printed.

- It does not zero-set the line buffer
- This command is present only in the printer version with display (TG558-D) and RTCK option.

[Default]

[Reference]

**\$1B \$44, \$1B \$55**

[Example]

If you wish to write :

	HOUR : 16 : 45 TEST OK
transmit	HOUR : \$1B \$54 TEST TEST OK \$0D
to print just the time	\$1B \$54 \$0D

#### **\$1B \$55**

[Name]

**Enters the date (mm - dd- yy) in the print buffer**

[Format]

ASCII	ESC	U
Hex	1B	55
Decimal	27	85

[Description]

Enters in the buffer the date of the calendar clock installed inside the printer, in the American style format : mm-dd-yy.

[Notes]

- The date is printed in 8 characters: if there is not enough space in the buffer, it will not be printed.
- It does not zero-set the line buffer
- This command is present only in the printer version with display (TG558-D) and RTCK option.

[Default]

[Reference]

**\$1B \$44, \$1B \$54**

[Example]

If you wish to write :

	DATE : 09-11-93 TEST OK
transmit	DATE : \$1B \$55 TEST OK \$0D
to print just the date	\$1B \$55 \$0D

#### **\$1B \$57**

[Name]

**Prints a graphic line at 203 dpi**

[Format]

ASCII	ESC	W
Hex	1B	57
Decimal	27	87

[Description]

After receiving this command, the printer waits for *n* bytes which correspond to an entire graphic line where *n* assumes :

n = 34byte for 35mm model  
n = 48 bytes for 58mm model

[Notes]

[Default]

[Reference]

[Example]

#### **\$1B \$58**

[Name]

**Prints in red**

[Format]

ASCII	ESC	X
-------	-----	---

### 3. PRINTER FUNCTIONS

	Hex	1B	58
	Decimal	27	88
[Description]	After receiving this command, the printer prepares itself to print in red.		
[Notes]			
[Default]			
[Reference]			
[Example]			

#### ESC a n

[Name]	<b>Select justification</b>			
[Format]	ASCII	ESC	a	n
	Hex	1B	61	n
	Decimal	27	97	n
[Range]	0 ≤ n ≤ 2, 48 ≤ n ≤ 50			
[Description]	Aligns all data in one line to the specified position, where <i>n</i> selects the type of justification as follows:			
	<b>n</b>	<b>Justification</b>		
	0, 48	Flush left		
	1, 49	Centered		
	2, 50	Flush right		
[Notes]	<ul style="list-style-type: none"><li>• This command is only enabled when inserted at the beginning of a line.</li><li>• Lines are justified within the specified printing area.</li><li>• Spaces set by <b>HT</b>, <b>ESC \$</b> and <b>ESC \</b> will be justified according to the previously entered mode.</li></ul>			
[Default]	n = 0			
[Reference]				
[Example]	Flush left	Centered	Flush right	
	<div>ABC ABCD ABCDE</div>	<div>ABC ABCD ABCDE</div>	<div>ABC ABCD ABCDE</div>	

#### (dd) \$1B \$61

[Name]	<b>Selects the number of dot spaces</b>			
[Format]	ASCII	(dd)	ESC	b
	Hex	(dd)	1B	62
	Decimal	(dd)	27	98
[Description]	(dd) are two ASCII characters which identify a hexadecimal byte and correspond to the number of dot lines between one print line and another.			
[Notes]				
[Default]	= 0			
[Reference]				
[Example]				

#### \$1B \$63

[Name]	<b>Management of bar code printing</b>			
[Format]	ASCII	ESC	c	[code] [height] [position] [options]
				[length] [data]
	Hex	1B	63	

### 3. PRINTER FUNCTIONS

[Description]

Decimal 27 99

This command executes a barcode printing depending on the following parameters:

[code] = Type of bar code (ASCII character) The values are :

I Interleaved 2/5  
C Code 39  
B CodaBar  
e EAN8  
E EAN13

[height] = Number of dot lines in 1/8 mm units.

[position]= Left hand margin, expressed in 1/8 mm units.

[options] = Specify the bar code options through a byte. Listed in the following table are all the possible value of a single bit inside of byte :

Bit 0	Function	Description
0	Check digit is not printed	Check digit
1	Check digit is printed	

Bit 1	Function	Description
-	Not used	-

Bit 3	Bit 2	Function	Description
0	0	no	HRI position
0	1	above	
1	0	below	
1	1	above and below	

Bit 5	Bit 4	Function	Description
0	0	normal	barcode length
0	1	double	
1	0	triple	
1	1	Not used	

Bit 1	Function	Description
6	Not used	-
7	Not used	-

[maximum length] Specify the characters number to print through a byte; following are the maximum lengths allowed :

Interleaved 2/5 = 12 characters  
Code 39 = 10 characters  
CodaBar = 10 characters  
EAN8 = 8 characters  
EAN13 = 13 characters

### 3. PRINTER FUNCTIONS

[data] = Expressed in ASCII.

[Notes]

[Default]

[Reference]

[Example]

In the following example the command sequence to print a barcode is indicated :

\$1B, 'N', \$1B, 'c', 'C', \$50, \$3C, \$14, \$06, 'TG558'



where :

\$1B, 'N'	(sets the printing in normal mode)
\$1B, 'c',	(barcode printing command)
'C',	(barcode type= Code 39)
\$50,	(barcode height = 10 mm)
\$3C,	(starting position = 7,5 mm)
\$14,	(HRI printing below, barcode width double)
\$06,	(characters number to print)
'TG558'	(characters to print)

#### ESC d n

[Name]	<b>Print and feed paper <i>n</i> rows</b>			
[Format]	ASCII	ESC	d	n
	Hex	1B	64	n
	Decimal	27	100	n
[Range]	$0 \leq n \leq 255$			
[Description]	Prints the data in the print buffer and feeds the paper <i>n</i> rows.			
[Notes]	<ul style="list-style-type: none"> <li>• Sets the print starting position at the beginning of the line.</li> <li>• This command does not affect the line spacing set by <b>\$1B \$32</b> or <b>\$1B \$33</b>.</li> <li>• The maximum paper feed amount is 200 rows. Even if a paper feed amount of more than 200 rows is set, the printer feeds the paper only 200 rows.</li> </ul>			
[Default]				
[Reference]	<b>\$1B \$32, \$1B \$33</b>			
[Example]				

#### \$1B \$68

[Name]	<b>Selects Font B</b>		
[Format]	ASCII	ESC	h
	Hex	1B	68
	Decimal	27	104
[Description]	After this command is received Font B is selected and the printer is ready to use this configuration. The number of columns by rows is indicated as follows :		



### 3. PRINTER FUNCTIONS

TG558	Font B
58mm model	42 columns
35mm model	28 columns

[Notes]

[Default]

[Reference] **\$1B \$49, \$1B \$69**

[Example]

#### **\$1B \$69**

[Name] **Selects Font B**

[Format]

ASCII	ESC	i
Hex	1B	69
Decimal	27	105

[Description] After this command is received Font B is selected and the printer is ready to use this configuration. The number of columns by rows is indicated as follows :

TG558	Font B
58mm model	40 columns
35mm model	28 columns

[Notes]

[Default]

[Reference] **\$1B \$49, \$1B \$68**

[Example]

#### **\$1B \$6B**

[Name] **Transmits the second configuration register in serial**

[Format]

ASCII	ESC	k
Hex	1B	6B
Decimal	27	107

[Description] The value of the second configuration register is transmitted through the serial port, is in ASCII format and has two characters which represent the hexadecimal value.

[Notes]

[Default]

[Reference] **\$1B \$4B**

[Example] The response is on two bytes. E.g. if you receive :  
\$30 \$39

it means that the default register is 00001001

#### **\$1B \$6D**

[Name] **Transmits the printing mode in serial**

[Format]

ASCII	ESC	m
Hex	1B	6D
Decimal	27	109

[Description] Transmits the printing mode configuration through serial port.

[Notes] • If the printer using a parallel protocol, it doesn't transmits anything.

[Default] Setting in the option register by means on the front keys

[Reference]

### 3. PRINTER FUNCTIONS

[Example]                      The response is in two bytes. E.g. if you receive :  
                                      \$30 \$32  
                                      it means that printing is in double height mode

#### \$1B \$70

[Name]                      **Transmits the configuration register in serial**  
 [Format]                    ASCII                    ESC                    p  
                                   Hex                      1B                      70  
                                   Decimal                27                      112  
 [Description]              Transmits the option register byte through serial port.  
 [Notes]                     • If the printer using a parallel protocol, it doesn't transmits anything  
 [Default]                     
 [Reference]                **\$1B \$47, \$1B \$4B, \$1B \$6B**  
 [Example]                   The response is in two bytes. E.g. if you receive :  
                                      \$30 \$39  
                                      it means that the default configuration is 00001001

#### \$1B \$72 n

[Name]                      **Set/reset red printing mode**  
 [Format]                    ASCII                    ESC                    r                    n  
                                   Hex                      1B                      72                    n  
                                   Decimal                27                      114                  n  
 [Range]                      $0 \leq n \leq 1, 48 \leq n \leq 49$   
 [Description]              Sets and resets red printing mode.  
                                   **n                    Function**  
                                   0, 48                Reset red printing mode  
                                   1, 49                Set red printing mode  
 [Notes]                     • The printer prints only entire lines in red, not individual characters.  
                                   • The printer prints red only if enabled (see Setup).  
 [Default]                     $n = 0$   
 [Reference]                 
 [Example]                   

#### \$1B \$73

[Name]                      **Transmits the next character in serial**  
 [Format]                    ASCII                    ESC                    s  
                                   Hex                      1B                      73  
                                   Decimal                27                      115  
 [Description]              Transmits the next character it receives from the serial port  
 [Notes]                       
 [Default]                      
 [Reference]                  
 [Example]                   If you transmit : \$1B \$73 \$41                    the last character, A (\$41), will not be printed but immediately transmitted on the serial line.

### 3. PRINTER FUNCTIONS

#### \$1B \$76

[Name] **Transmit paper sensor status**

[Format] ASCII          ESC          v  
Hex          1B          76  
Decimal      27          118

[Description] Transmit the current paper sensor status upon receiving this command

[Notes] This command is executed immediately, even when the reception buffer is full (BUSY).  
The status to be transmitted is shown in the table below.

Bit	Off/On	Hex	Decimal	Function
0-3	off	00	00	Paper present
0-3	on	0F	15	Paper end
5	off	00	00	Cover close/no paper jam
5	on	20	32	Cover open/Paper jam
6-7	-	-	-	RESERVED

[Default]

[Reference] **\$10 \$04**

[Example]

#### \$1B \$78

[Name] **Prints in black**

[Format] ASCII          ESC          x  
Hex          1B          78  
Decimal      27          120

[Description] After receiving this command, the printer prepares itself to print in black.

[Notes]

[Default] n = 0

[Reference]

[Example]

#### \$1B \$7B n

[Name] **Turn upside-down printing mode on/off**

[Format] ASCII          ESC          {          n  
Hex          1B          7B          n  
Decimal      27          123          n

[Range]  $0 \leq n \leq 255$

[Description] Turns upside-down printing mode on or off.

- When the LSB of *n* is 0, the upside-down printing mode is off.
- When the LSB of *n* is 1, the upside-down printing mode is on.

[Notes] • Only the LSB of *n* is effective.

• This command is valid only if entered at the beginning of a line.

• In upside-down printing mode, the printer rotates the line to be printed 180° and then prints it.

[Default] n = 0

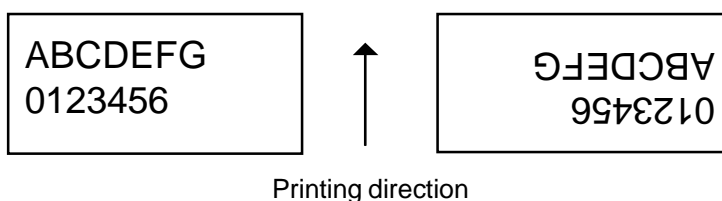
[Reference]

### 3. PRINTER FUNCTIONS

[Example]

Upside-down printing Off

Upside-down printing On



#### \$1B \$F0

[Name]

**Transmits the real time clock**

[Format]

ASCII            ESC        {}  
Hex        1B            F0  
Decimal        27            240

[Description]

Use this command, to read the printer's calendar clock (real time clock).

[Notes]

- Transmit the time and date in 12 ASCII characters format :

**HHmmSSDDMMYY**

where :

HH -> hour  
mm -> minutes  
SS -> seconds  
DD -> day  
MM -> month  
YY -> year

- This command is present only in the printer version with display (TG558-D) and RTCK option.

[Default]

[Reference]

[Example]

#### \$1B \$F1 n0...n9

[Name]

**Sets the real time clock**

[Format]

ASCII            ESC        {}        n0... n9  
Hex        1B            F1        n0... n9  
Decimal        27            241        n0... n9

[Description]

Use this command, to set the printer calendar clock (real time clock).

[Notes]

- Transmit the time and date in 10 ASCII characters format :

**HHmmDDMMYY**

where :

HH -> hour  
mm -> minutes  
DD -> day  
MM -> month  
YY -> year

- This command is present only in the printer version with display (TG558-D) and RTCK option.

### 3. PRINTER FUNCTIONS

[Default]

[Reference]

[Example]

#### \$1B \$FA n xH xL yH yL

[Name] **Print logo.**

[Format]      ASCII          ESC      {}          n          xH          xL          yH          yL  
                  Hex            1B        FA        n          xH          xL          yH          yL  
                  Decimal        27        250      n          xH          xL          yH          yL

[Range]          n = 1, 49  
                   $0 \leq xH, xL, yH, yL \leq 255$

[Description]    Prints graphic logo stored into flash bank; n selects the graphic source as follows :  
 $xL + xH \times 256$  specifies the starting dotline (  $1 \div Nrow$ ) where  
                   $Nrow = 341$  for 58mm model  
                   $Nrow = 512$  for 35mm model  
 $yL + yH \times 256$  specifies the number of lines to print.

[Notes]            • If  $(xL + (xH \times 256)) > Nrow$  the printer does not execute the command where  
                   $Nrow = 341$  for 58mm model  
                   $Nrow = 512$  for 35mm model  
                  • If  $(xL + (xH \times 256) + yL + (yH \times 256)) > Nrow$  the printer prints only  $Nrow - xL + (xH \times 256) + 1$  dotline where  
                   $Nrow = 341$  for 58mm model  
                   $Nrow = 512$  for 35mm model  
                  • The logo dimension is :  
                   $384 \times 341$                   for 58mm model  
                   $256 \times 512$                   for 35mm model

[Default]

[Reference]

[Example]          To print from ram bank dotline 10 to dotline 64, send:  
                  \$1B      \$FA      \$00      \$00      \$0A      \$00      \$40

#### \$1D \$21 n

[Name] **Select character size**

[Format]          ASCII          GS            !            n  
                  Hex            1D            21            n  
                  Decimal        29            33            n

[Range]           $0 \leq n \leq 255$

[Description]    Selects character height and width, as follows:  
                  • Bits 0 to 3 low Nibble: to select character height (see table 2).  
                  • Bits 4 to 7 High Nibble: to select character width (see table 1).

0bit	1bit	2bit	3bit	4bit	5bit	6bit	7bit
height				width			

### 3. PRINTER FUNCTIONS

Table 1 Select Character Width (high Nibble)

Hex	Width
0x	1 (normal width = 1x)
1x	2 (width = 2x)
2x	3 (width = 3x)
3x-Fx	1 (normal width = 1x )

Table 2 Select character height (Low Nibble)

Hex	Height
x0	1 (normal height = 1x))
x1	2 (height = 2x)
x2	3 (height = 3x)
x3-xF	1 (normal height = 1x)

- [Notes]
- This command is effective for all characters (except HRI characters).
  - If  $n$  falls outside the defined range, this command is ignored.
  - Characters enlarged to different heights on the same line are aligned at the baseline or topline.
- [Default]  $n = 0$
- [Reference] **\$00, \$01, \$02, \$03, \$04**
- [Example]

#### **\$1D \$24 n**

- [Name] **Set absolute shift into a graphic line.**
- [Format]
- |         |    |    |   |
|---------|----|----|---|
| ASCII   | GS | \$ | n |
| Hex     | 1D | 24 | n |
| Decimal | 29 | 36 | n |
- [Range]
- $0 \leq n \leq 47$  for 58mm model
- $0 \leq n \leq 34$  for 35mm model
- [Description] Set the print beginning position into a graphic line based on the current value of  $n$  that indicate the byte number of shift from left margin.
- [Notes]
- Settings outside the specified printable area are ignored.
- [Default]
- [Reference]
- [Example]

#### **\$1D \$44 s1 s2 s3 s4**

- [Name] **Visualization on display a string of 4 characters.**
- [Format]
- |         |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|
| ASCII   | GS | D  | s1 | s2 | s3 | s4 |
| Hex     | 1D | 44 | s1 | s2 | s3 | s4 |
| Decimal | 29 | 68 | s1 | s2 | s3 | s4 |
- [Range]
- $48 \leq s1, s2, s3, s4 \leq 57$
- $65 \leq s1, s2, s3, s4 \leq 90$
- [Description] Visualizes a string of 4 characters on printer display.
- [Notes]
- This command is present only in the printer version with display (TG558-D).
- [Default]
- [Reference]
- [Example] To visualize the string "CIAO" on display send :
- \$1D \$44 \$43 \$49 \$41 \$4F**

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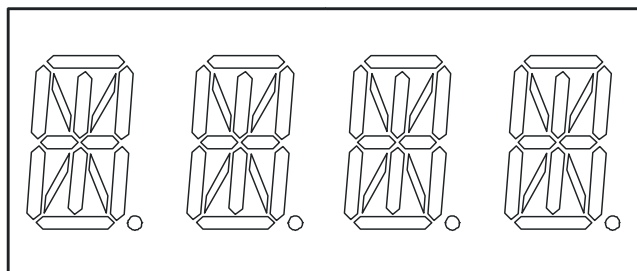
**\$1D \$45 d1...d8**

[Name] **Display management in graphic mode.**

[Format] ASCII GS E d1... d8  
Hex 1D 45 d1... d8  
Decimal 29 69 d1... d8

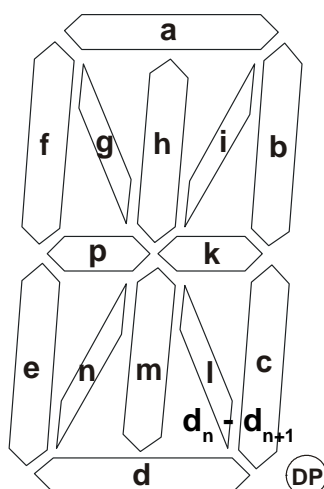
[Range]  $0 \leq d1 \leq 255$   
 $0 \leq d8 \leq 255$

[Description] It's possible to customize the display visualization mode. Send 8 bytes (d1...d8) that identify the 4 digit present on display in the following mode :



1 <sup>st</sup> digit		2 <sup>nd</sup> digit		3 <sup>rd</sup> digit		4 <sup>th</sup> digit	
d1	d2	d3	d4	d5	d6	d7	d8

[Notes] • In the following figure are represented the display digits :



• Each pair of bytes identify a digit, and must be as follows :

7	dn							0	7	dn +1							0
N.U.	DP	k	p	n	m	l	i		h	g	f	e	d	c	b	a	

• This command is present only in the printer version with display (TG558-D).

[Default]

[Reference]

[Example]

To visualize the character “+” on all 4 display digits send :

\$1D \$45 \$34 \$80 \$34 \$80 \$34 \$80 \$34 \$80

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#### \$1D \$46 n

[Name]	<b>Enabling graphic display effects.</b>			
[Format]	ASCII	GS	F	n
	Hex	1D	46	n
	Decimal	29	70	n
[Range]	$1 \leq n \leq 4, 49 \leq d8 \leq 52$			
[Description]	Enables the graphic display effects. There are four effects already stored into the printer that can be reloaded in base of the n value.			
[Notes]	<ul style="list-style-type: none"> <li>This command is present only in the printer version with display (TG558-D).</li> </ul>			
[Default]				
[Reference]				
[Example]				

#### \$1D \$49 n

[Name]	<b>Transmit printer ID</b>			
[Format]	ASCII	GS	I	n
	Hex	1D	49	n
	Decimal	29	73	n
[Range]	$1 \leq n \leq 3, 49 \leq n \leq 51$			
[Description]	Transmits the printer ID specified by n follows:			

n	Printer ID	Specification
1, 49	Printer model ID	\$68 (58mm model) \$69 (35mm model)
2, 50	Type ID	See table below
3, 51	ROM version ID	Depends on ROM version (4 character)

#### n = 2, Type ID

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	2-byte character codes not supported
1	Off	00	0	Autocutter not supplied
	On	02	2	Autocutter supplied
2	Off	00	0	Thermal paper w/o label
	On	04	4	Thermal paper w/label
3	-	-	-	RESERVED
4	-	-	-	RESERVED
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	-	-	RESERVED

[Notes]	<ul style="list-style-type: none"> <li>This command is executed when the data is processed in the data buffer. Therefore, there could be a time lag between command reception and data transmission, depending on data buffer status.</li> </ul>
[Default]	
[Reference]	
[Example]	



### 3. PRINTER FUNCTIONS

#### **\$1D \$4C n m t d1...dk**

[Name]	<b>Receive display effect from serial port</b>						
[Format]	ASCII	GS	L	n	m	t	d1... dk
	Hex	1D	4C	n	m	t	d1... dk
	Decimal	29	76	n	m	t	d1... dk
[Range]	$1 \leq n \leq 4, 49 \leq n \leq 52$						
	$0 \leq m \leq 63$						
	$0 \leq d1 \leq 255, 0 \leq dk \leq 255$						
[Description]	Receives display effect from serial port.						
	<ul style="list-style-type: none"> <li>• The <i>n</i> parameter indicates the effect display number to apply (see \$1D \$46 command).</li> </ul>						
	<ul style="list-style-type: none"> <li>• The <i>m</i> parameter indicates the frame number. If the <i>m</i> value exceeds the maximum value allowed then was automatically limited to 63.</li> </ul>						
	<ul style="list-style-type: none"> <li>• The <i>t</i> parameter indicates the display interval between one frame and another (the value is calculated in milliseconds).</li> </ul>						
[Notes]	<ul style="list-style-type: none"> <li>• The frame structure is the same as specified in the command \$1D \$45.</li> </ul>						
	<ul style="list-style-type: none"> <li>• The d1...dk bytes, that was sent to define the display effect, are calculated as follows :  <math>k = m \times 8</math> (where <i>m</i> is the frame number)</li> </ul>						
	<ul style="list-style-type: none"> <li>• After receiving this command a printer reset is executed.</li> </ul>						
	<ul style="list-style-type: none"> <li>• This command is present only in the printer version with display (TG558-D).</li> </ul>						
[Default]							
[Reference]	<b>\$1D \$45</b>						
[Example]							

#### **\$1D \$57 n d1...dn**

[Name]	<b>Prints n byte of a 203 dpi graphic line</b>					
[Format]	ASCII	GS	W	n	d1...	dn
	Hex	1D	57	n	d1...	dn
	Decimal	29	87	n	d1...	dn
[Range]	$1 \leq n \leq 48$ for 58mm model					
	$1 \leq n \leq 34$ for 35mm model					
	$0 \leq d1 \dots dn \leq 255$					
[Description]	Print n byte of a 203 dpi graphic line where :					
	<ul style="list-style-type: none"> <li>• <i>n</i> specifies the number of byte to print;</li> <li>• d1...dn specify the bytes to print.</li> </ul>					
[Notes]	<ul style="list-style-type: none"> <li>• If the bit image data input exceeds the number of dots to be printed on a line, the excess data are processed as printable characters.</li> </ul>					
	<ul style="list-style-type: none"> <li>• <i>d</i> indicates the bit image data. Set a corresponding bit to 1 to print a dot, or to 0 to not print the dot.</li> </ul>					
	<ul style="list-style-type: none"> <li>• This command is not affected by the emphasized, double-strike, underline (etc.) print modes and the upside-down mode.</li> </ul>					
[Default]						
[Reference]						
[Example]	For printing 12 bytes the command sequence is :					
	\$1D \$57 \$0C \$FF \$00 \$FF \$00 \$FF \$00 \$FF \$00 \$FF \$00 \$FF \$00					

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#### \$1D \$59 n

[Name]	<b>Sets height in printing.</b>			
[Format]	ASCII	GS	Y	n
	Hex	1D	59	n
	Decimal	29	89	n
[Description]	Sets height during printing based on following values of n: When you print a dot line if n=0 height is set to one n ≠ 0 (default value) height is set to two			
[Notes]	When n ≠ 0 (default value) each dotline is twice replicated			
[Default]	n ≠ 0			
[Reference]				
[Example]				

#### \$1D \$5A n

[Name]	<b>Receive n bytes from serial port</b>			
[Format]	ASCII	GS	Z	n
	Hex	1D	5A	n
	Decimal	27	90	n
[Description]	Receives n bytes from serial port and prints them in graphic mode			
[Notes]	Max value of n is n ≤ 48 for 58mm model n ≤ 34 for 35mm model			
[Default]				
[Reference]				
[Example]				

#### \$1D \$62 m n

[Name]	<b>Management of barcode printing.</b>						
[Format]	①	②	③	ASCII GS	b	m	n
				Hex	1D	62	m n
				Decimal	29	124	m n
[Range]	①	m = 'p', 'P'		1 ≤ n ≤ 3, 49 ≤ n ≤ 51			
	②	m = 't', 'T'		48 ≤ n ≤ 56			
	③	m = 'c', 'C'		n = 'z', 'Z', 'i', 'I', 'd', 'D', 'r', 'R'			
[Description]	① This command prints a EAN13 barcode already formatted ; n specifies the formattation type as follows :						

n	Barcode format
1, 49	DDMMYYHHmmSS
2, 50	DDMMYnHHmmSS
3, 51	DDMMYYHHmmnnn

where :

**DD** -> day      **MM** -> month      **YY** -> year      **HH** ->hour

**mm** -> minutes    **SS** -> seconds      **n** -> terminal number(0-9)

**nnn** -> progressive ticket number

② This command sets the terminal number that will be printed in the barcode if it was

### 3. PRINTER FUNCTIONS

selected the DDMMYnHHmmSS format.

- The terminal number value must be included between 0 and 9 (n).

After receiving this command the printer send a byte to host in the following format :

1° byte:   ACK (\$06)                   if the setting value is included in the interval  
               NAK (\$15)                if the setting value is not included in the interval

- The terminal number is stored into EEPROM so this value still remains also after a reset command or printer shut-down.

③ This command is relative to the counter defined as progressive of ticket printed; n specifies the operation executed on counter as indicated in the following table :

n	Function
'z', 'Z'	Resets the progressive ticket counter
'i', 'I'	Increases the progressive ticket counter
'd', 'D'	Decreases the progressive ticket counter
'r', 'R'	Reads the progressive ticket counter

- The counter value is stored into RAM so when the printer resets or shut-down the counter is reset .

[Notes]

[Default]

[Reference]

[Example]

<sup>(1)</sup> \$1D \$64 \$30, <sup>(2)</sup> \$1D \$64 \$31 n d1...dk

[Name]                   **Enable / Disable scrolling text**

[Format]               ①               ASCII               GS       d       0  
   Hex                1D       64       30  
   Decimal 29       100       0  
   ②               ASCII               GS       d       1       n       d1...dk  
   Hex                1D       64       31       n       d1...dk  
   Decimal 29       100       1       n       d1...dk

[Range]               ②  $0 \leq n \leq 63$ ,  $0 \leq d1 \leq 255$ ,  $0 \leq dk \leq 255$

[Description]       ② This command disables scrolling text .

① This command visualizes on display a string , that was sent through serial port as scrolling text;

[Notes]               ② • The n parameter indicates the length of a string. The maximum number length's 63 characters it will be.

- If the string contains a NULL character (\$00) the next characters reception are aborted.

- This command is present only in the printer version with display (TG558-D).

[Default]

[Reference]

[Example]

ù

### 3. PRINTER FUNCTIONS

#### \$1D \$6F n

[Name]	<b>Management of output lines</b>			
[Format]	ASCII	GS	o	n
	Hex	1D	6F	n
	Decimal	27	111	n
[Description]	This command sets the output lines as follows :			

bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
AUXOUT				INIBIT			

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Out Inibit
	On	01	1	
1	-	-	-	RESERVED
2	-	-	-	RESERVED
3	-	-	-	RESERVED
4	Off	00	0	Out Auxout
	On	08	8	
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	-	-	RESERVED

[Notes]	• This command is present only in the printer version with display (TG558-D).
[Default]	
[Reference]	
[Example]	

#### \$1D \$72 n

[Name]	<b>Transmit status</b>			
[Format]	ASCII	GS	r	n
	Hex	1D	72	n
	Decimal	29	114	n
[Range]	n = 1, 49			
[Description]	Transmits the status specified by <i>n</i> as follows:			
	<b>n</b>	<b>Function</b>		
	1, 49	Transmits paper sensor status (as for <b>\$1D \$76</b> ).		
	Paper sensor status (n = 1, 49)			

Bit	Off/On	Hex	Decimal	Function
0,1	-	-	-	RESERVED
2,3	Off	00	0	Paper-end sensor: Paper present
	On	(0C)	(12)	Paper-end sensor: Paper not present
4	Off	00	0	Not used. Fixed to Off.
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	-	-	RESERVED

### 3. PRINTER FUNCTIONS

[Notes] • This command is executed when the data is processed in the data buffer. Therefore, there may be a time lag between receiving the command and transmitting the status, depending on data buffer status.

[Default]

[Reference] **\$10 \$04, \$1B \$76**

[Example]

#### **\$1D \$EB**

[Name]	<b>Receive, save, execute melody</b>									
[Format]	①	ASCII	GS	{}	N	k				
		Hex	1D	EB	4E	k				
		Decimal	29	235	78	k				
	②	ASCII	GS	{}	w	k	mh	ml	n1t1..nmtm	
		Hex	1D	EB	77	k	mh	ml	n1t1..nmtm	
		Decimal	29	235	119	k	mh	ml	n1t1..nmtm	
[Range]	①	$1 \leq k \leq 4, 49 \leq k \leq 52$								
	②	$1 \leq k \leq 4, 49 \leq k \leq 52$								
		$0 \leq mH \leq 255, 0 \leq mL \leq 255$								
[Description]	①	<ul style="list-style-type: none"> <li>• This command is used for receiving and saving a melody.</li> <li>• The k parameter selects the melody to execute.</li> </ul>								
	②	<ul style="list-style-type: none"> <li>• This command save a melody into flash.</li> <li>• k parameter selects the melody to receive.</li> <li>• mh and mL are the number of notes to receive (mH x 256 + mL).</li> <li>• n indicates the note to play (see Note Table).</li> <li>• t indicates the duration of playing note ; (the exactly duration of any note will be expressed in multiples of 5 ms).</li> </ul>								
	In the following table are listed the usable notes and theirs hexadecimal value to send for playing note.									

### 3. PRINTER FUNCTIONS

NOTES TABLE

Note	Value (Hex)	Description
NO_SOUND	\$21	-
SOUND_ON	\$20	-
RE_D_5	\$30	RE # 5 Ottava
MI_5	\$31	MI
FA_5	\$32	FA
FA_D_5	\$33	FA #
SOL_5	\$34	SOL
SOL_D_5	\$35	SOL #
LA_5	\$36	LA
LA_D_5	\$37	LA #
SI_5	\$38	SI
DO_6	\$39	DO 6 Ottava
DO_D_6	\$3A	DO #
RE_6	\$29	RE
RE_D_6	\$3B	RE #
MI_6	\$3C	MI
FA_6	\$3D	FA
FA_D_6	\$0E	FA #
SOL_6	\$3E	SOL
SOL_D_6	\$2C	SOL #
LA_6	\$3F	LA
LA_D_6	\$04	LA #
SI_6	\$05	SI
DO_7	\$25	DO 7 Ottava
DO_D_7	\$2F	DO #
RE_7	\$06	RE
RE_D_7	\$07	RE #

[Notes]

- ② • The NO\_SOUND note disable the tones generator must be used to end a melody.
- The SOUND\_ON note enable the tones generator but no produce any music. This note must be used also when executes a pause.
- Every melody must start with the SOUND\_ON note.
- This command is present only in the printer version with display (TG558-D).

[Default]

[Reference]

[Example]

Blank page

## 4. SPECIFICHE TECNICHE

### 4.1 SPECIFICHE TECNICHE

La tabella 4.1 riporta le principali caratteristiche tecniche della stampante.

(Tab.4.1)

Modello	58 mm			35 mm	
Colonne	24	40	42	17	28
Metodo di stampa	Termica				
Risoluzione	203 DPI (8 dot/mm)				
Caratteristiche carta					
Tipo di carta	Carta termica in rotolo Lato termico all'esterno del rotolo				
Tipo di carta consigliati	da 55 g/m <sup>2</sup> a 65 g/m <sup>2</sup> (KANZAN)				
Larghezza	57.5 mm ± 1 mm			35mm ± 0.5 mm	
Diametro anima interna rotolo	13mm				
Diametro esterno rotolo	max Ø80 mm (con staffa porta rotolo esterna)				
Tipo anima	Cartone o plastica				
Sensori	Temperatura testina, presenza carta, sensore inceppamento carta Opzionale : sensore quasi fine carta esterno, sensore prelevamento ticket				
Modo di scrittura	Diritto, Rovesciato				
Formati di stampa	Altezza / larghezza da 1 a 2, grassetto, negativo, sottolineato.				
Font di caratteri	ASCII standard, International				
Interfacce standard	RS232/TTL				
Baud rate	Da 600 a 38400 bps				
Buffer di ricezione	750 bytes				
Flash memory	60 Kbytes				
Memoria grafica	1 logo da 384 x 341 dots			1 logo da 256 x 512 dots	
Driver di stampa	Windows™ 95, 98, ME, NT4, 2K, XP				
Alimentazione	12 Vdc ± 10%				
Consumo di corrente					
Corrente in stampa	2 A				
Corrente di stand by	0.1 A				
Peso stampante <sup>(1)</sup>	490 gr.				
Condizioni ambientali					
Temperatura di funzionamento	0°C ÷ 45°C				
Umidità relativa	10% ÷ 70% senza condensa				
Temperatura di stoccaggio / Umidità	-20 °C ÷ +70 °C / 10% ÷ 90%				



**Note :**<sup>(1)</sup> Riferito senza rotolo carta ed al modello con frontale plastico.



## 4. SPECIFICHE TECNICHE

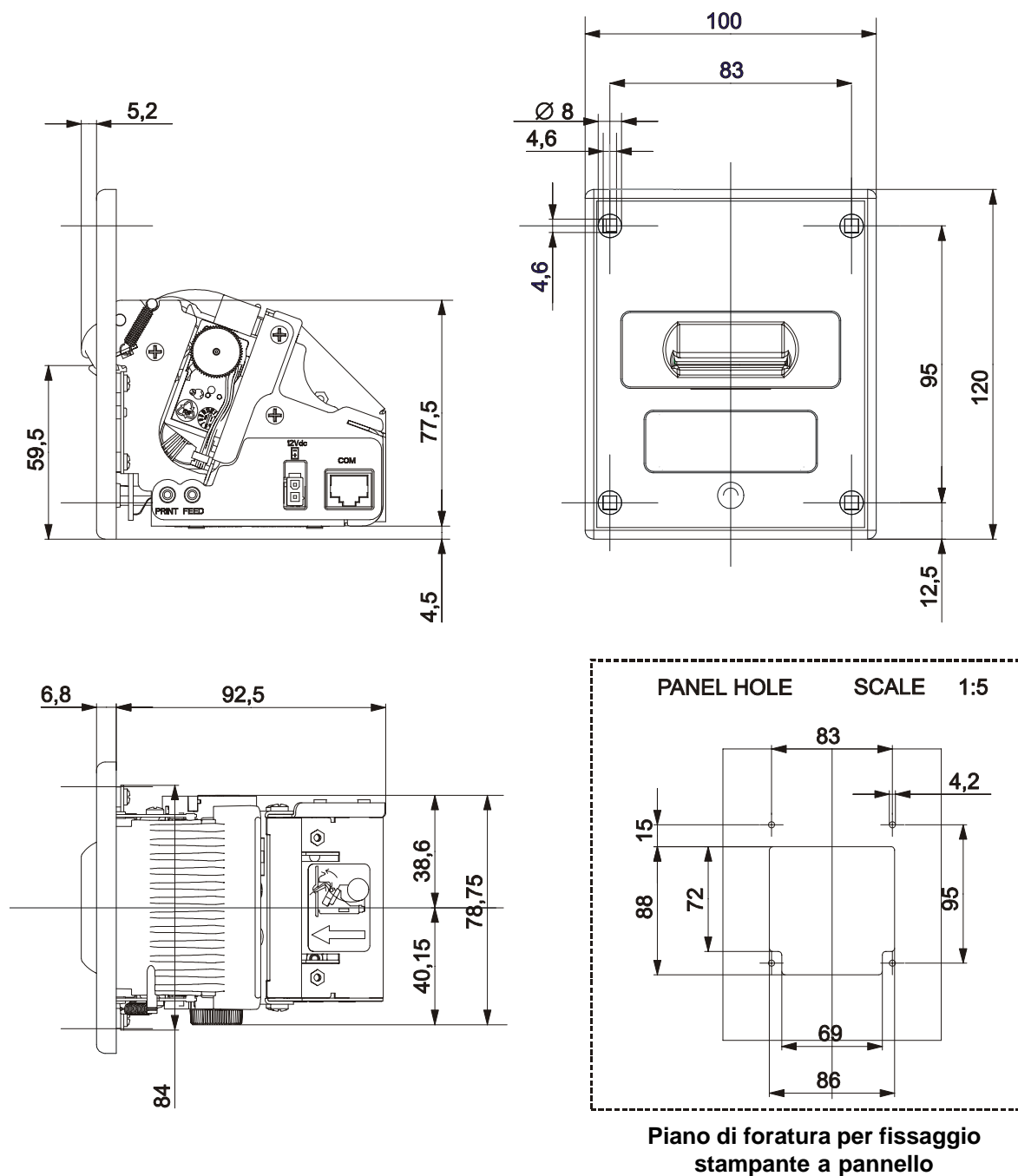
OPZIONI	- Staffa porta rotolo orientabile con sensore	
Colonne	24 (mod. 58mm) 17 (mod. 35mm)	40 (mod. 58mm) 28 (mod. 35mm)
Matrice di carattere	16 x 24	8 x 24
Velocità di stampa		
Linee / sec	16,25	16,25
Caratteri / sec	390	650
Carattere (L x H)		
Normale	2 x 3	1 x 3

### 4.2 DIMENSIONI

#### 4.2.1 Modello con frontale plastico

In figura 4.1 sono riportate le dimensioni della stampante con frontale plastico.

(Fig.4.1)

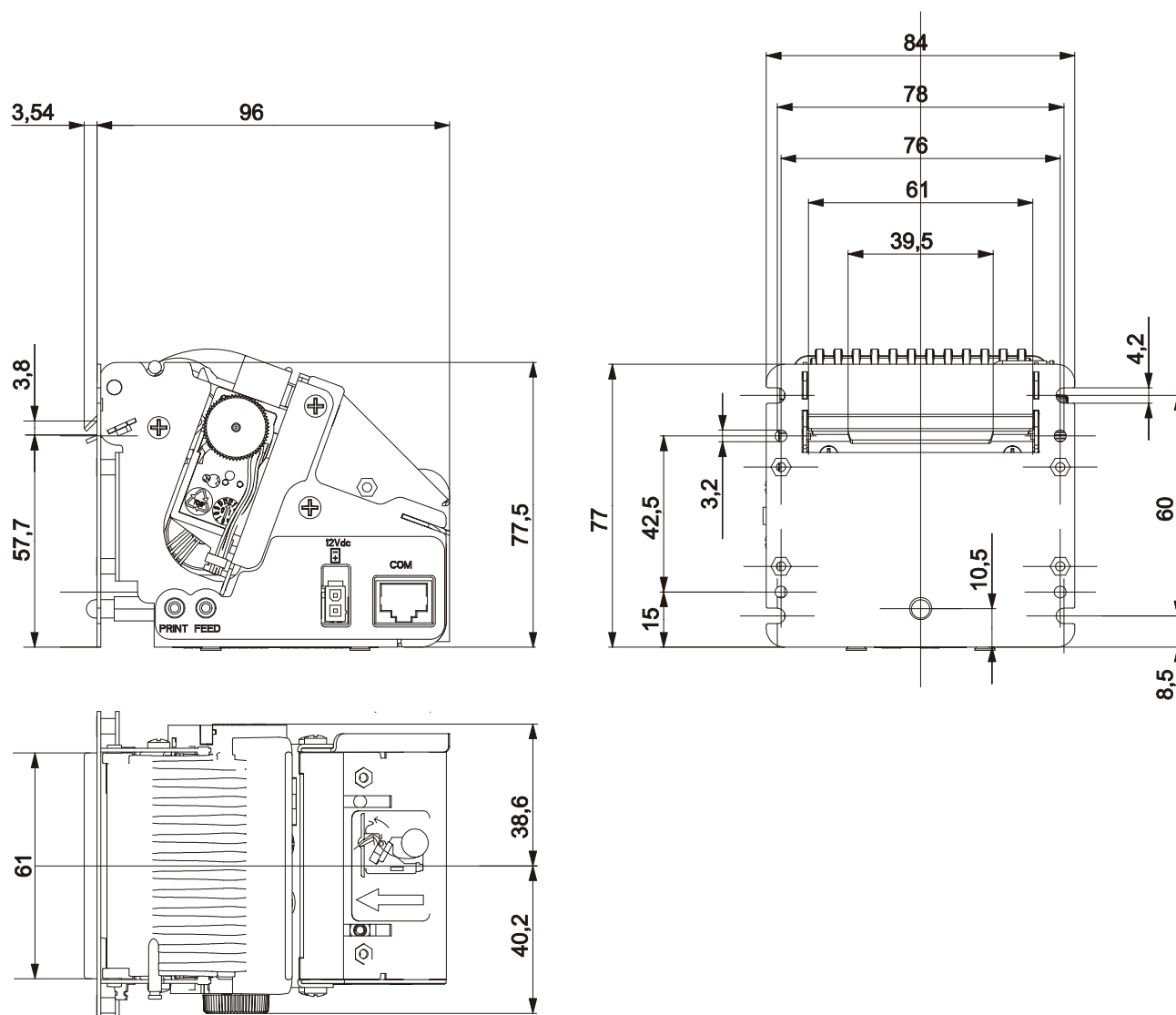


## 4. SPECIFICHE TECNICHE

### 4.2.2 Modello con frontale metallico

In figura 4.2 sono riportate le dimensioni della stampante con frontale metallico versione 35mm.

(Fig.4.2)

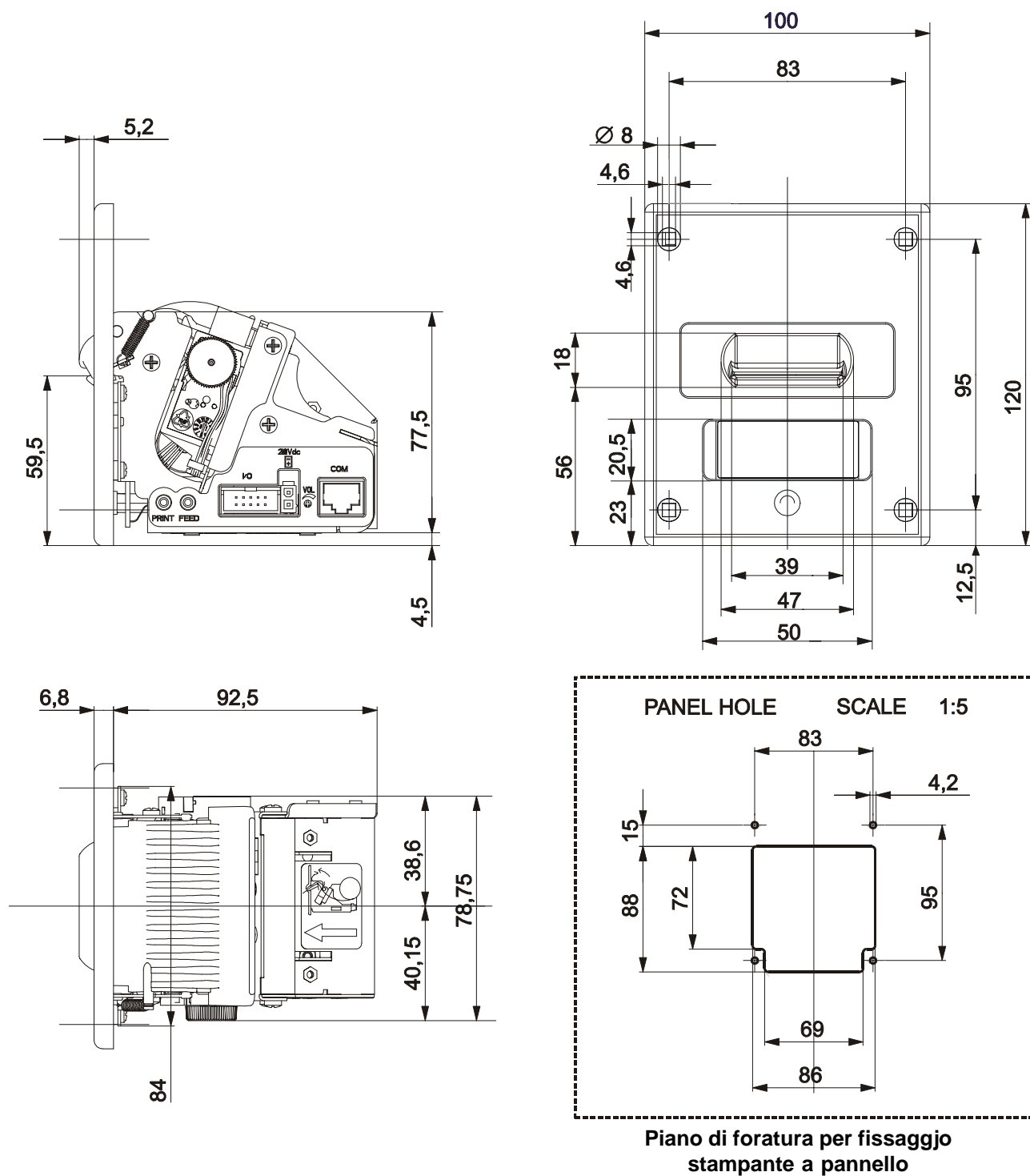


## 4. SPECIFICHE TECNICHE

### 4.2.3 Modello con Display

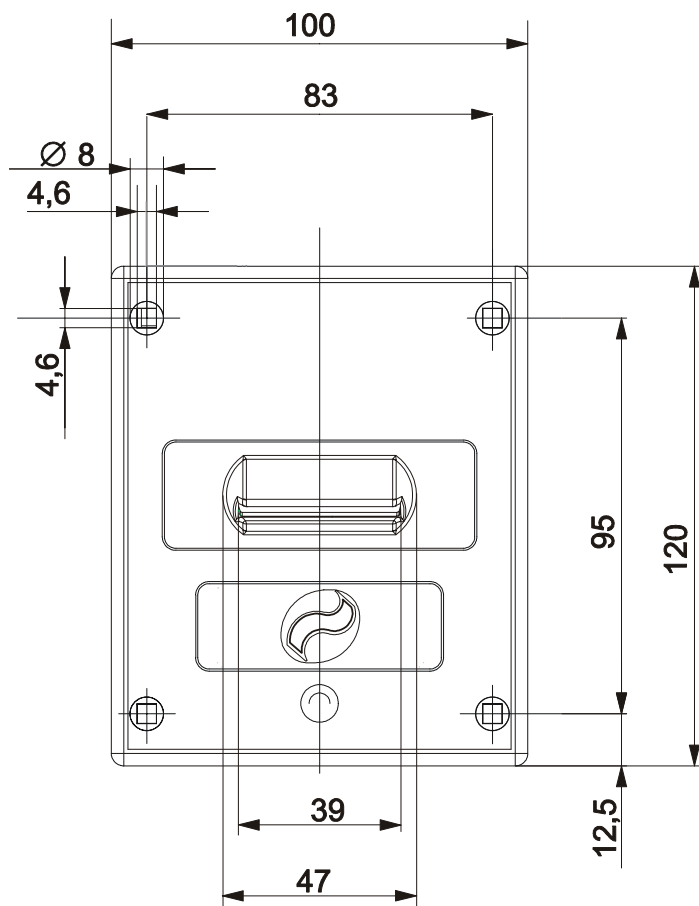
In figura 4.3 sono riportate le dimensioni della stampante con display versione 35mm.

(Fig.4.3)



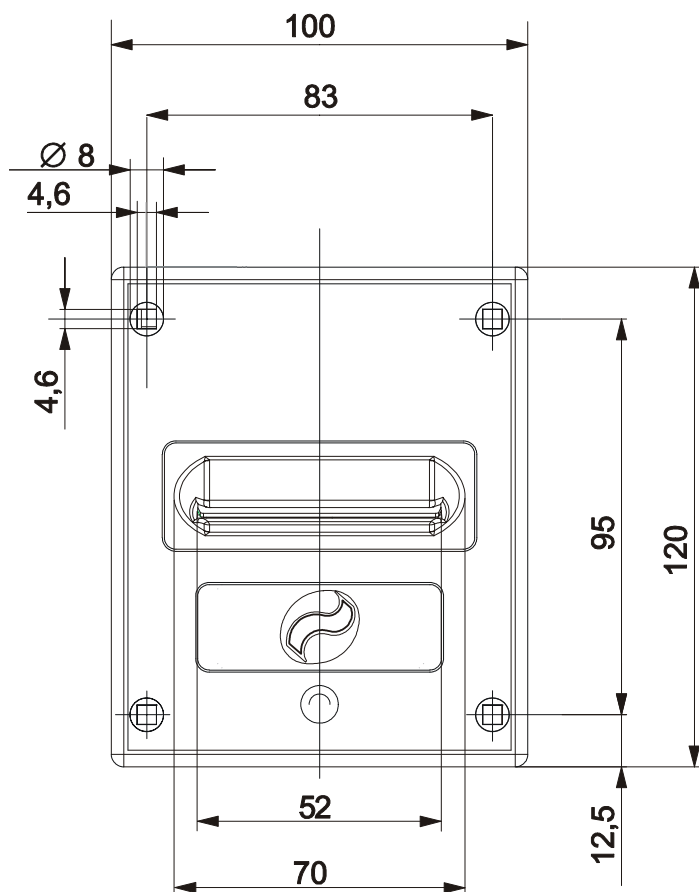
## 4. SPECIFICHE TECNICHE

Le figure 4.4 e 4.5 riportano le dimensioni del pannello frontale della TG558.



Pannello frontale  
TG558 35 mm

(Fig.4.4)



Pannello frontale  
TG558 58 mm

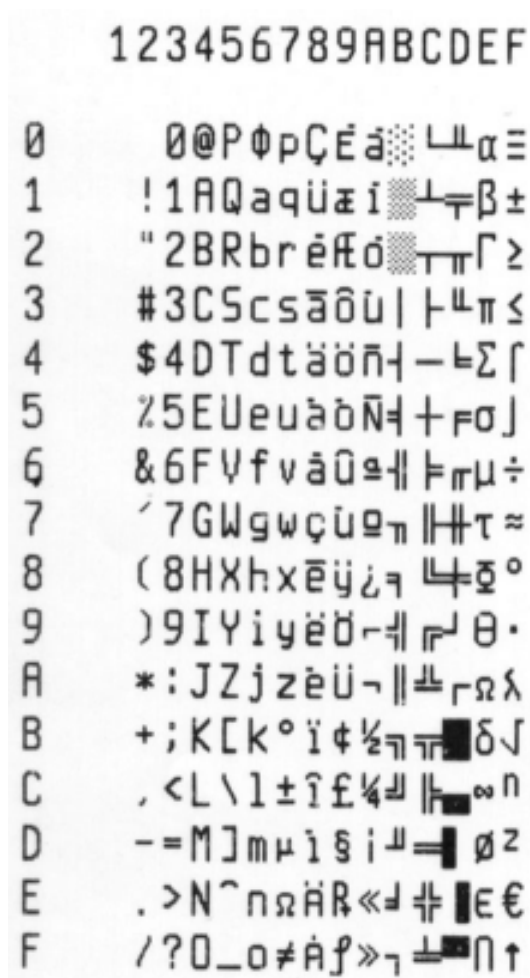
(Fig.4.5)

## 5. SERIE DI CARATTERI

### 5.1 SET DI CARATTERI

La stampante dispone di due set di 224 caratteri ciascuno (font 1 e font 2). Nella seguente figura viene riportato un esempio.

24 COLUMNS (font 16 x24)



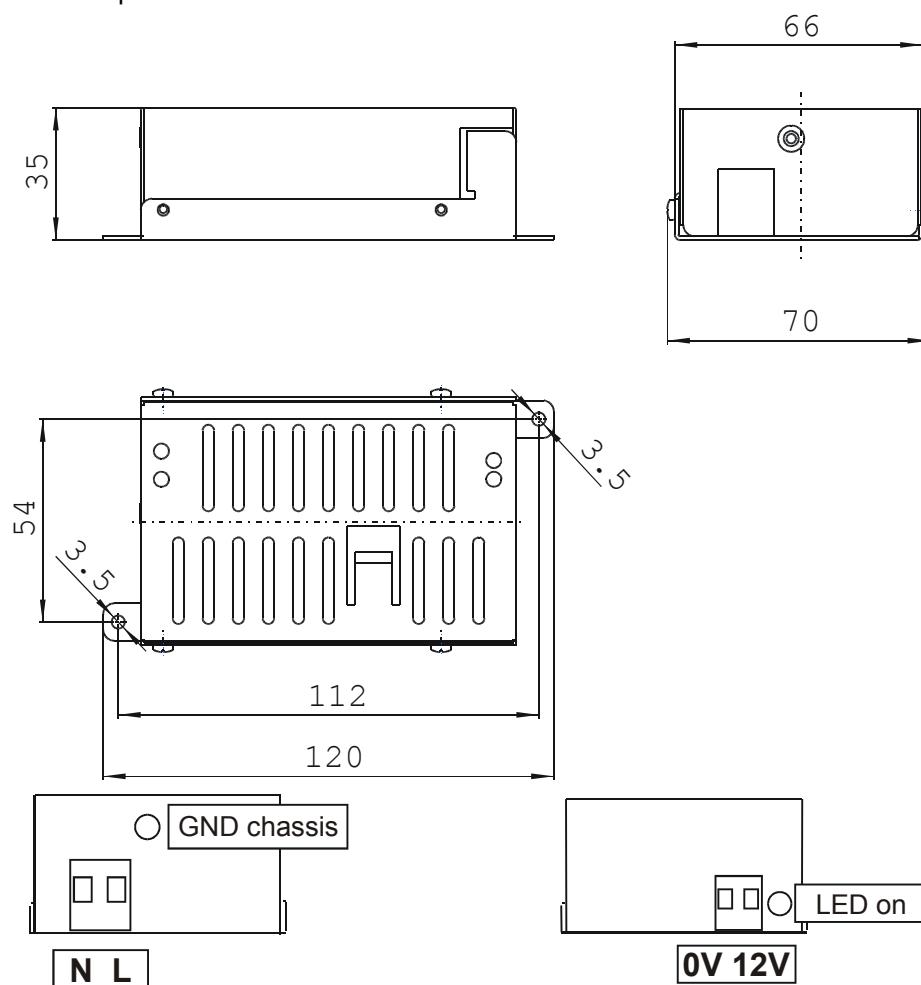
(Fig.5.1)

## A.1 ACCESSORI

### A.1.1 Alimentatore

La figura seguente mostra l'alimentatore 12V di produzione CUSTOM ENGINEERING SPA, utilizzabile per il funzionamento della stampante TG558.

(Fig.A.1)



(Tab.A.1)

Specifiche di ingresso		Specifiche di uscita	
Tensione di ingresso	100 Vac to 240 Vac	Tensione di uscita	12 V
Frequenza di ingresso	50 Hz to 60 Hz	Corrente di uscita	Maximum 4 A
			Peak 6 A
			Short Circuit 6 A

### A.1.2 Kit staffa portarotolo orientabile

La stampante dispone di un kit staffa porta rotolo orientabile (vedi fig. A.2 e A.3) per consentire l'utilizzo di rotoli carta con diametro maggiore (max 80mm).

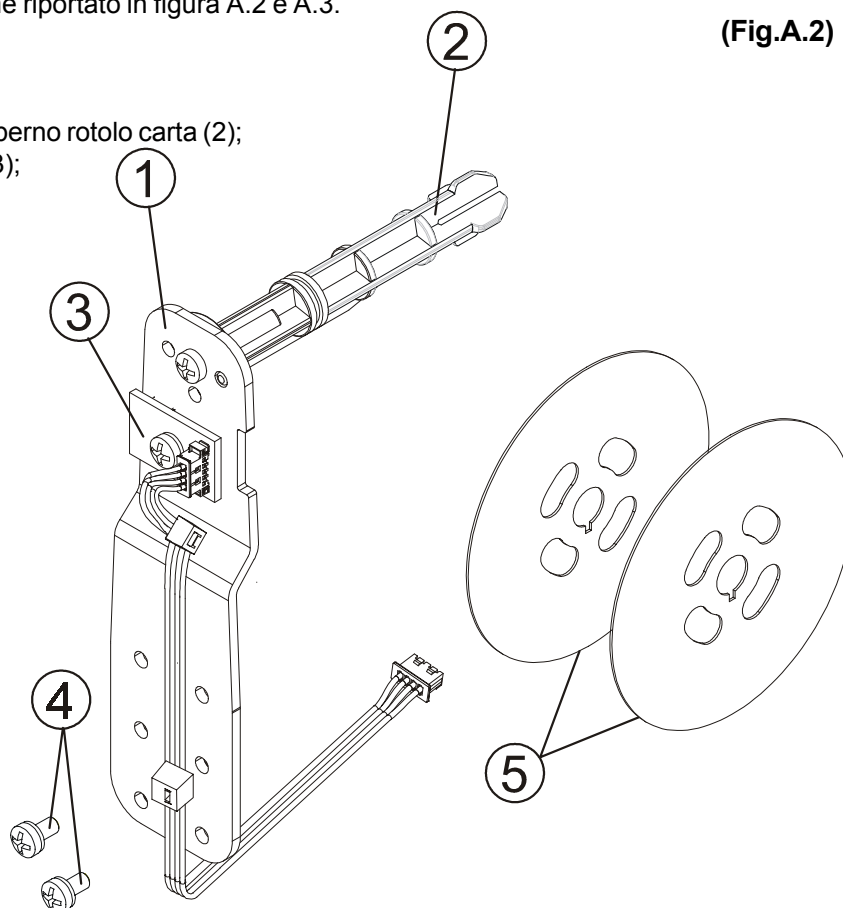
(Tab.A.2)

PCXSP-TG558-35	Kit staffa porto rotolo per vers. 35mm con sensore QFC
PCXSP-TG558-58	Kit staffa porto rotolo per vers. 58mm con sensore QFC

Il kit viene fornito già assemblato come riportato in figura A.2 e A.3.

### Kit staffa vers. 58mm :

- Staffa portarotolo (1) assemblata al perno rotolo carta (2);
- Schedino sensore quasi fine carta (3);
- Due viti di fissaggio M3x6 (4);
- Due dischi di contenimento (5).



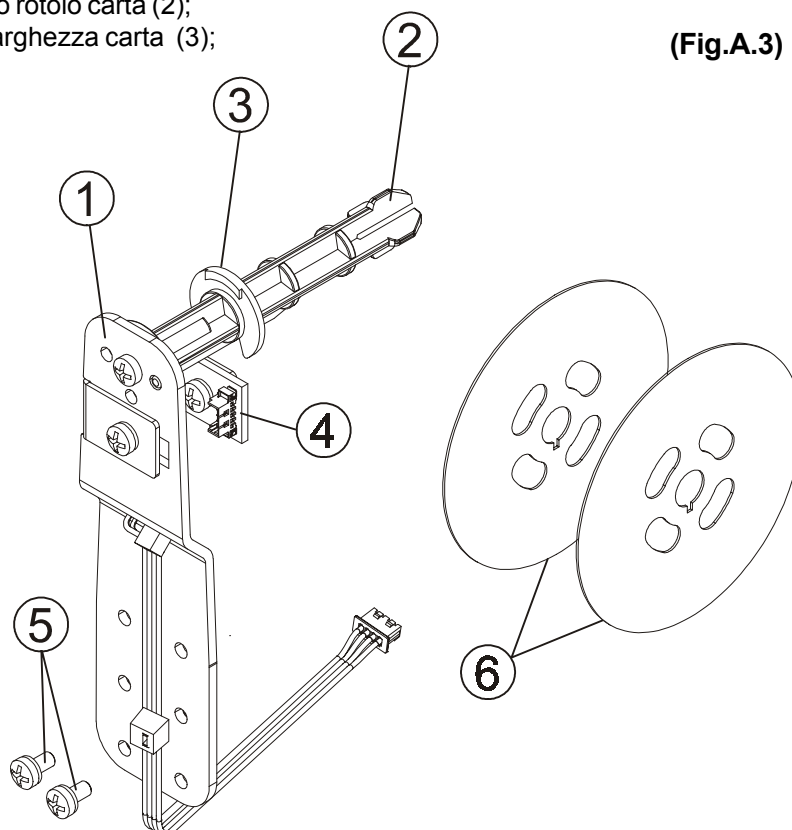
(Fig.A.2)

### Kit staffa vers. 35mm :

- Staffa portarotolo (1) assemblata al perno rotolo carta (2);
- Anello di bloccaggio <sup>(1)</sup> per regolazione larghezza carta (3);
- Schedino sensore quasi fine carta (4);
- Due viti di fissaggio M3x6 (5);
- Due dischi di contenimento (6).



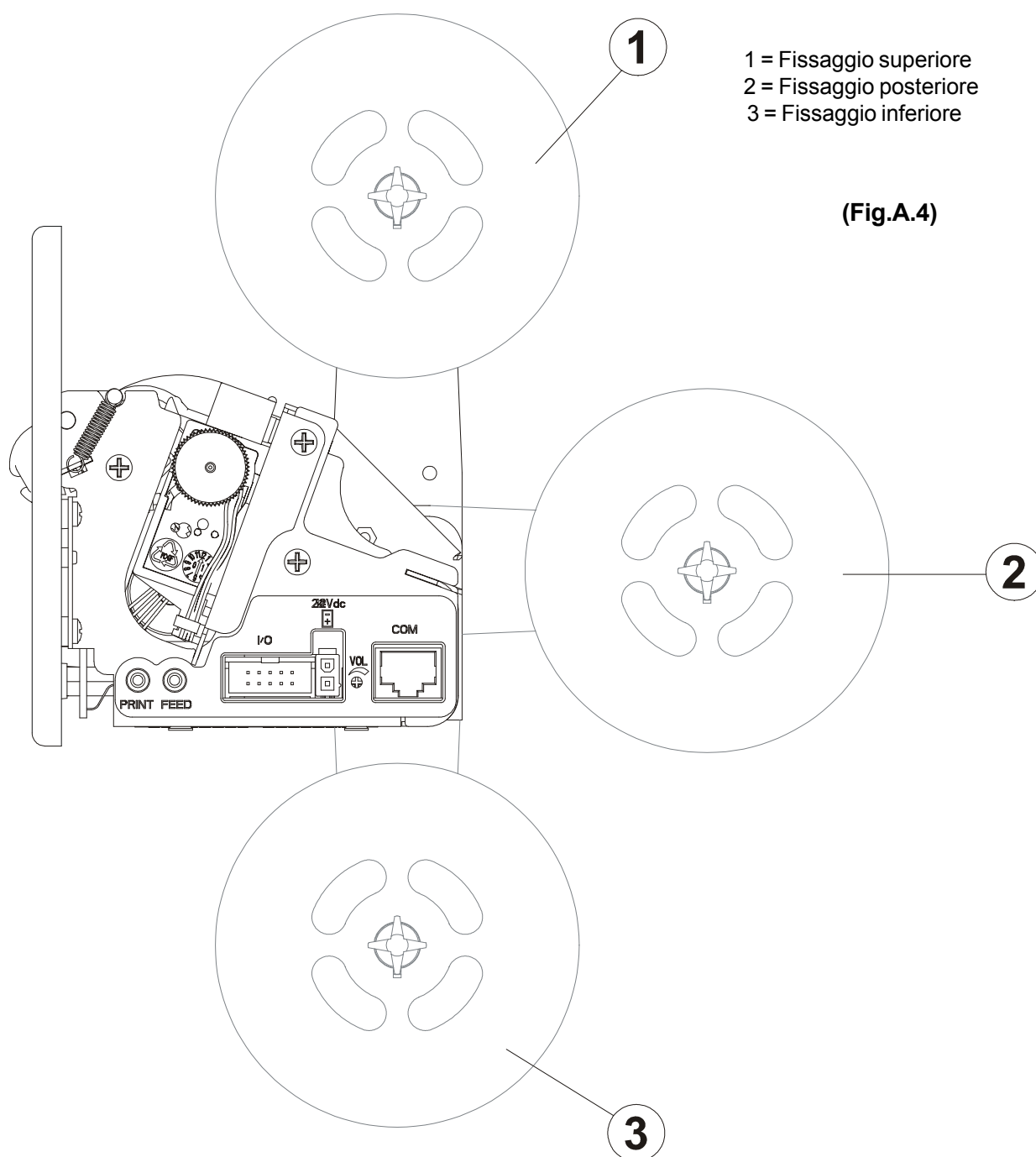
<sup>(1)</sup> **NOTA:** L'anello di bloccaggio è presente solo nella versione 35mm.



(Fig.A.3)

### Istruzioni di montaggio

Il posizionamento della staffa porta rotolo non è fisso ma regolabile su 3 diverse posizioni: posteriore, inferiore e superiore come indicato in figura A.4.



### Fissaggio staffa superiore

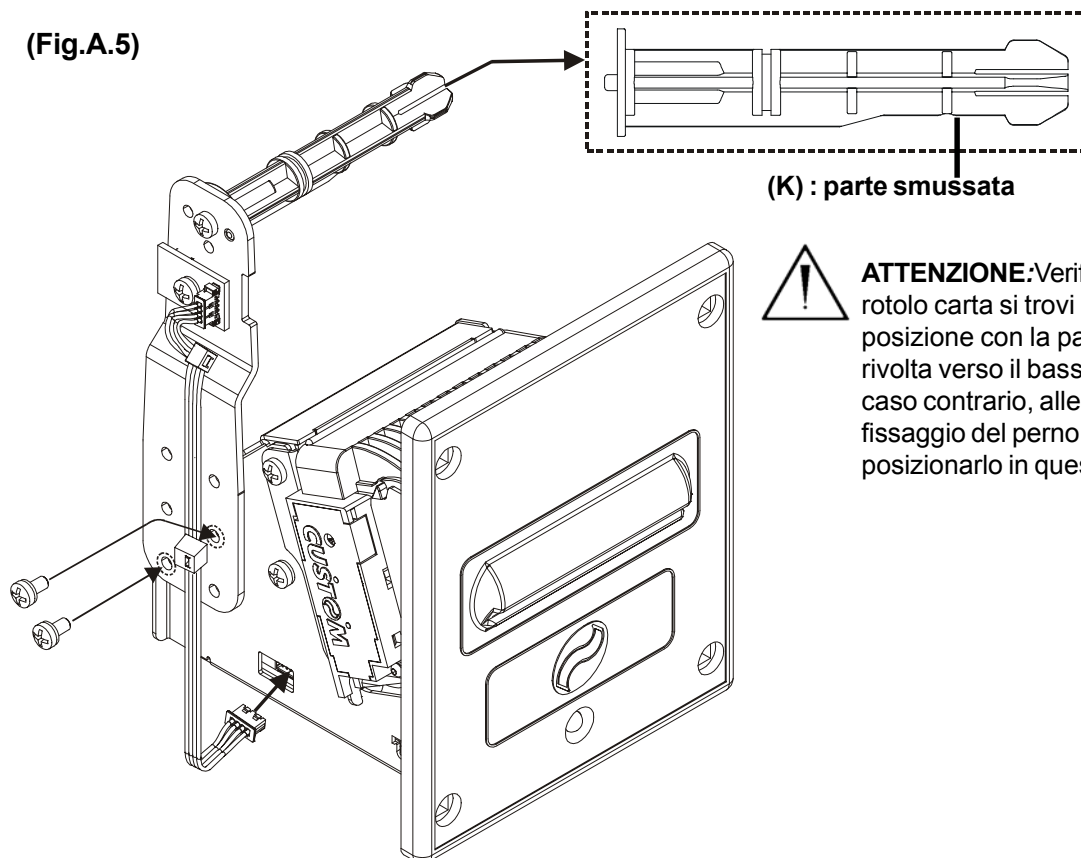
Versione 58mm

1- Fissare la staffa al telaio della stampante con le due viti di fissaggio, presenti nel kit, nei due punti indicati in fig. A.5.

2 - Collegare il cablaggio sensore della staffa al connettore della stampante come indicato in fig. A.5.



(Fig.A.5)



(K) : parte smussata

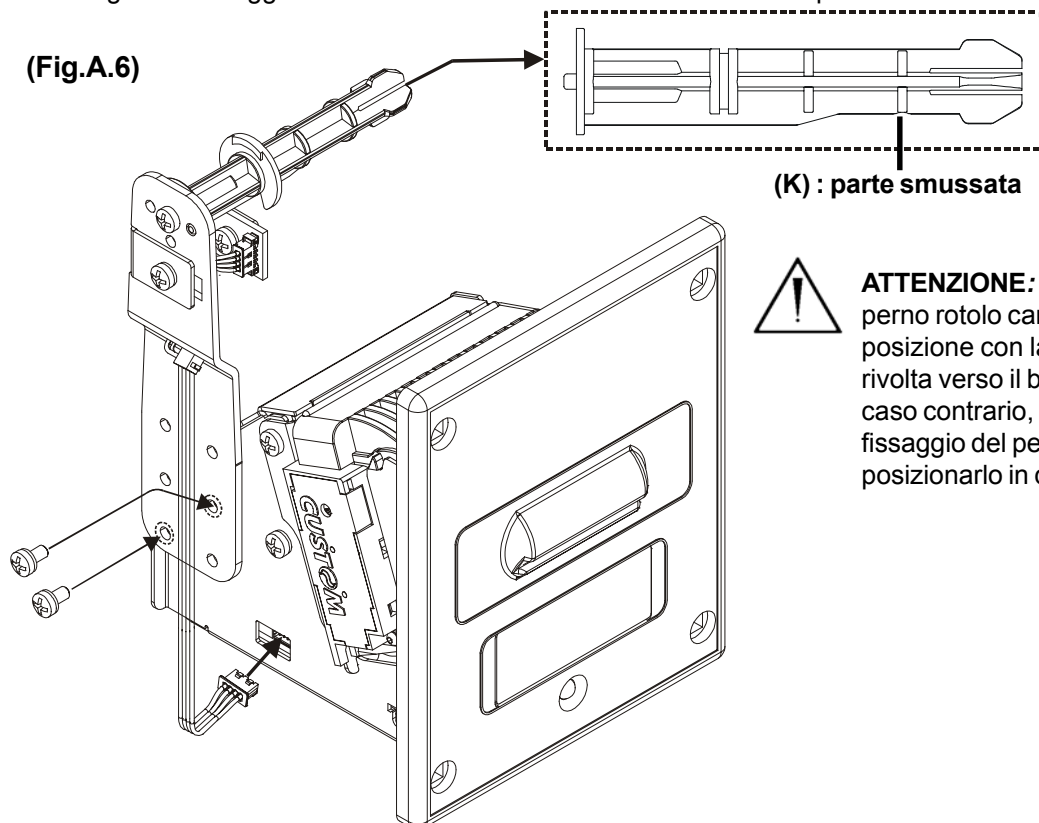


**ATTENZIONE:** Verificare che il perno rotolo carta si trovi in questa posizione con la parte smussata (k) rivolta verso il basso; altrimenti in caso contrario, allentando la vite di fissaggio del perno alla staffa, posizionarlo in questo modo.

Versione 35mm

- 1 - Fissare la staffa al telaio della stampante con le due viti di fissaggio, presenti nel kit, nei due punti indicati in fig. A.6.
- 2 - Collegare il cablaggio sensore della staffa al connettore della stampante come indicato in fig. A.6.

(Fig.A.6)



(K) : parte smussata



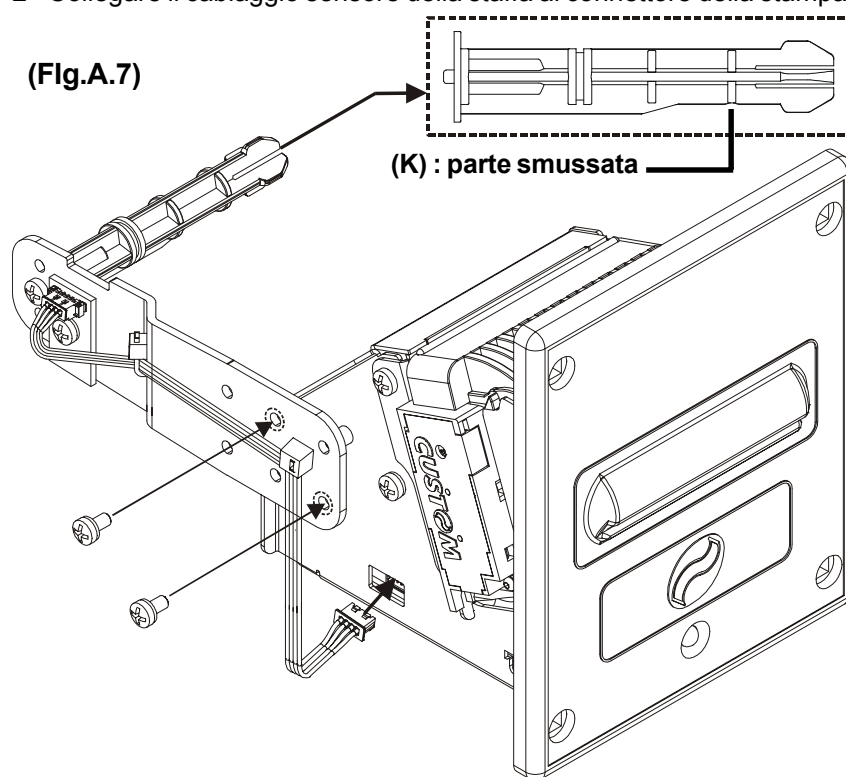
**ATTENZIONE:** Verificare che il perno rotolo carta si trovi in questa posizione con la parte smussata (k) rivolta verso il basso; altrimenti in caso contrario, allentando la vite di fissaggio del perno alla staffa, posizionarlo in questo modo.

### Fissaggio posteriore

#### Versione 58mm

- 1 - Fissare la staffa al telaio della stampante con le due viti di fissaggio, presenti nel kit, nei due punti indicati in fig. A.7.
- 2 - Collegare il cablaggio sensore della staffa al connettore della stampante come indicato in fig. A.7.

(Fig.A.7)

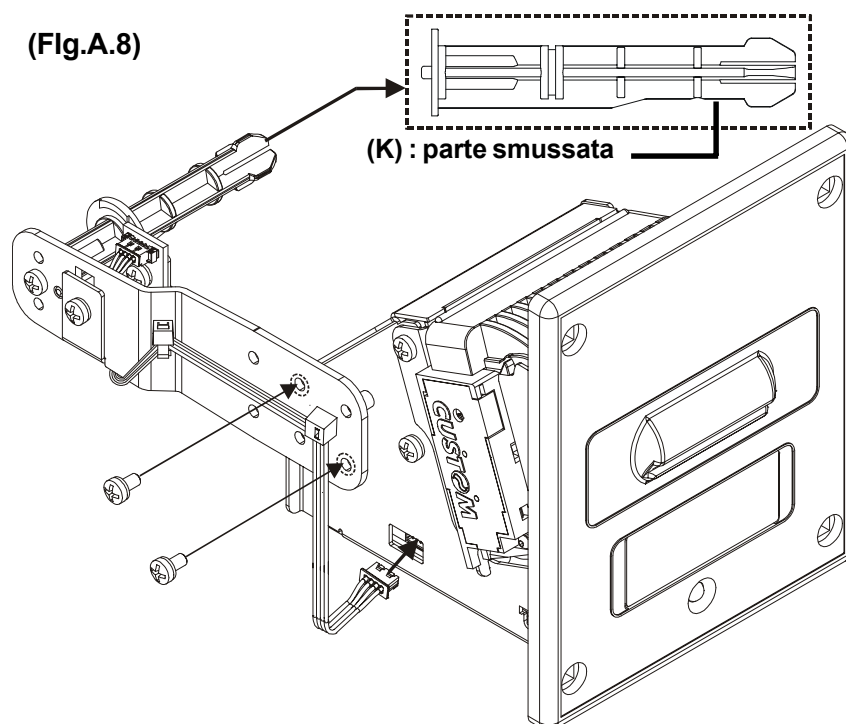


**ATTENZIONE:** Verificare che il perno rotolo carta si trovi in questa posizione con la parte smussata (k) rivolta verso il basso; altrimenti in caso contrario, allentando la vite di fissaggio del perno alla staffa, posizionarlo in questo modo.

#### Versione 35mm

- 1 - Fissare la staffa al telaio della stampante con le due viti di fissaggio, presenti nel kit, nei due punti indicati in fig. A.8.
- 2 - Collegare il cablaggio sensore della staffa al connettore della stampante come indicato in fig. A.8.

(Fig.A.8)



**ATTENZIONE:** Verificare che il perno rotolo carta si trovi in questa posizione con la parte smussata (k) rivolta verso il basso; altrimenti in caso contrario, allentando la vite di fissaggio del perno alla staffa, posizionarlo in questo modo.

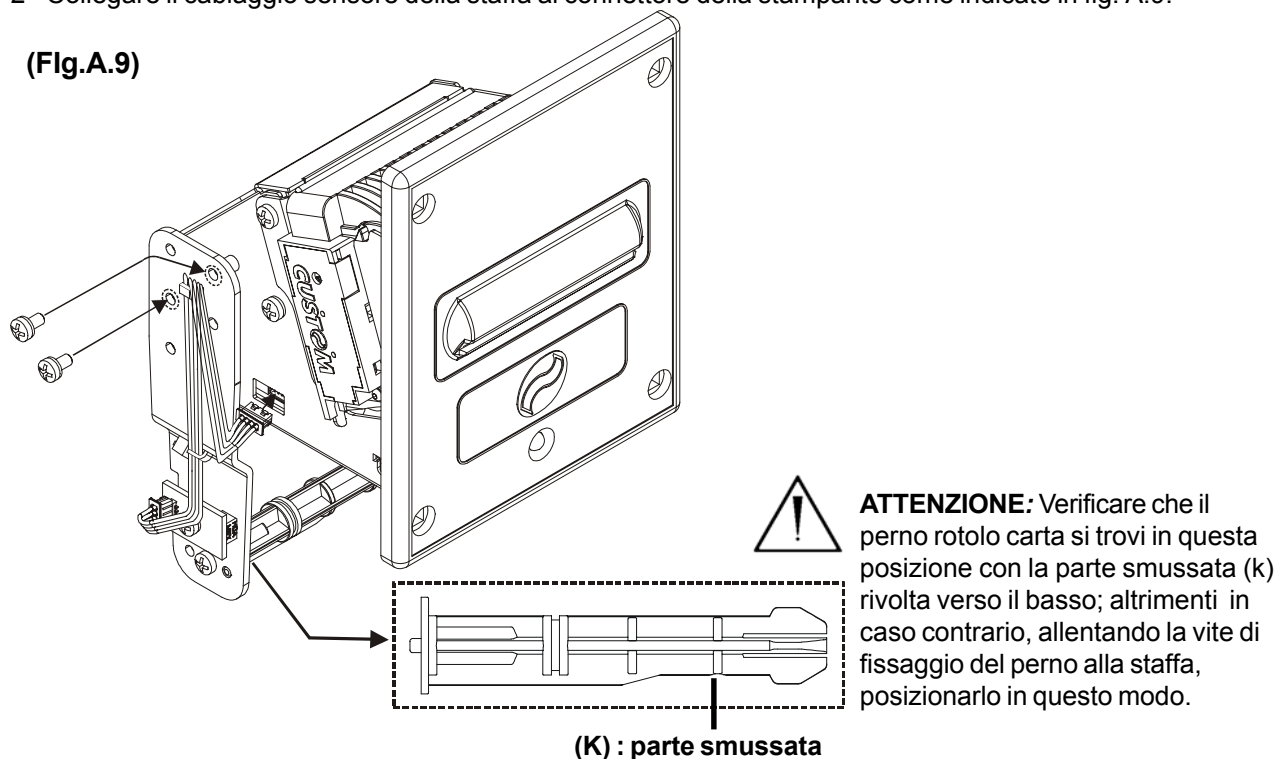
### Fissaggio inferiore

#### Versione 58mm

1- Fissare la staffa al telaio della stampante con le due viti di fissaggio, presenti nel kit, nei due punti indicati in fig. A.9.

2 - Collegare il cablaggio sensore della staffa al connettore della stampante come indicato in fig. A.9.

(Fig.A.9)

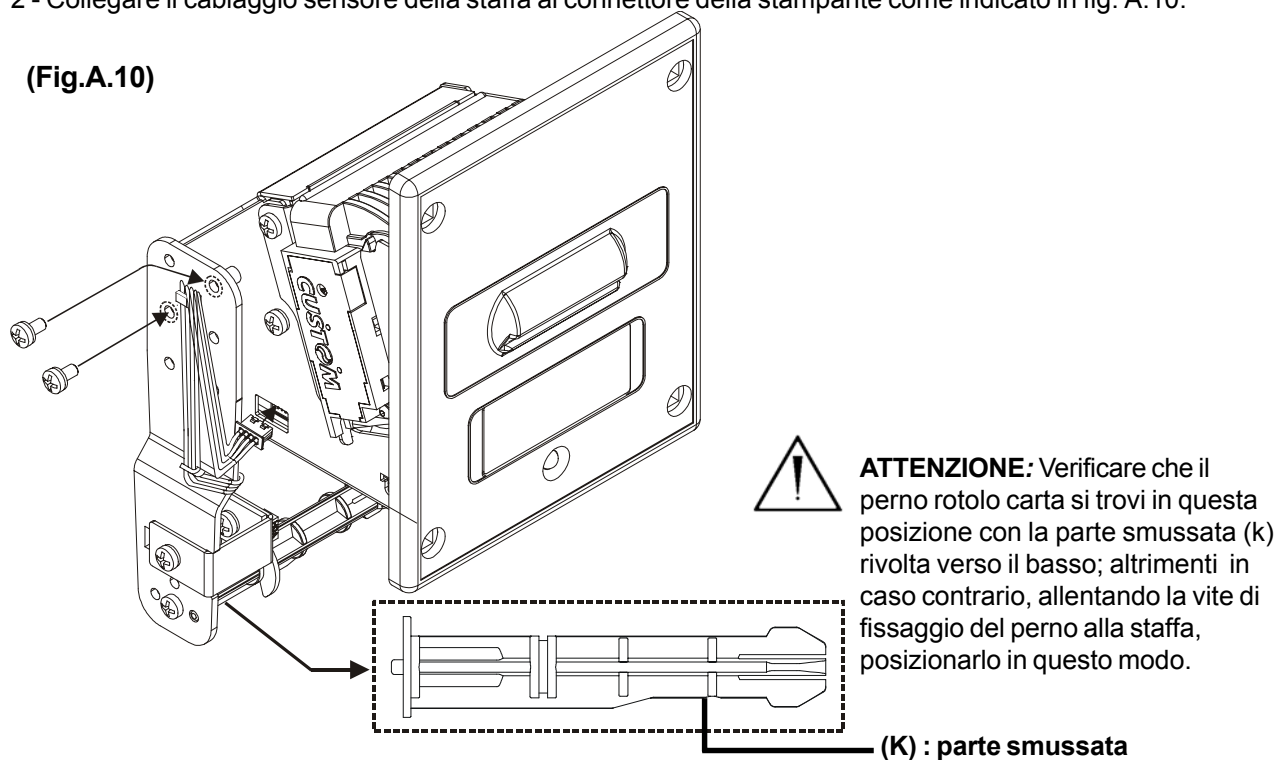


#### Versione 35mm

1 - Fissare la staffa al telaio della stampante con le due viti di fissaggio, presenti nel kit, nei due punti indicati in fig. A.10.

2 - Collegare il cablaggio sensore della staffa al connettore della stampante come indicato in fig. A.10.

(Fig.A.10)

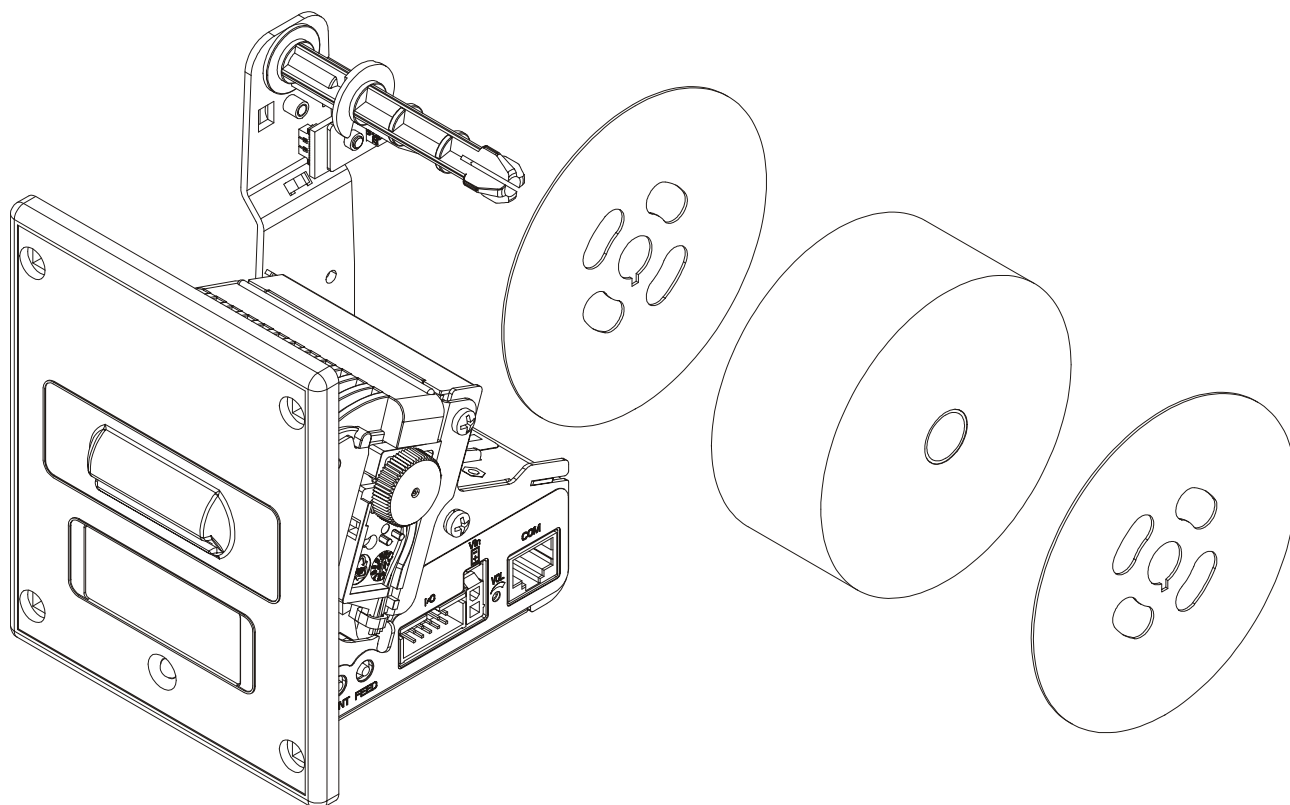


### Utilizzo dei dischi di contenimento

Nella seguente figura A.11 viene mostrato come assemblare i dischi di contenimento al perno del rotolo carta della stampante.



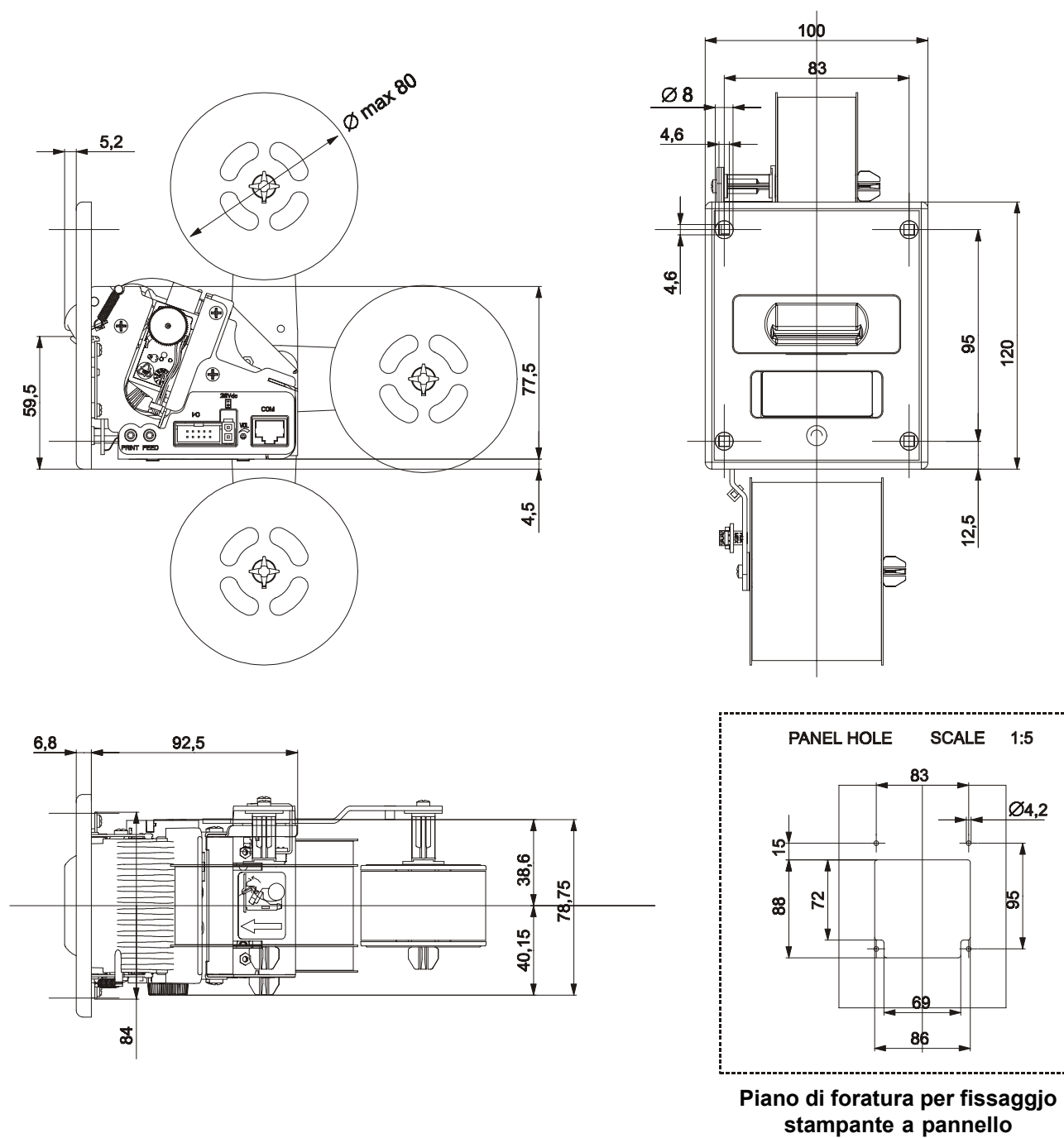
<sup>(2)</sup> **NOTA:** Il modello riportato in fig. A.11 è indicativo sul loro utilizzo; l'operazione descritta è valida per tutti i modelli.



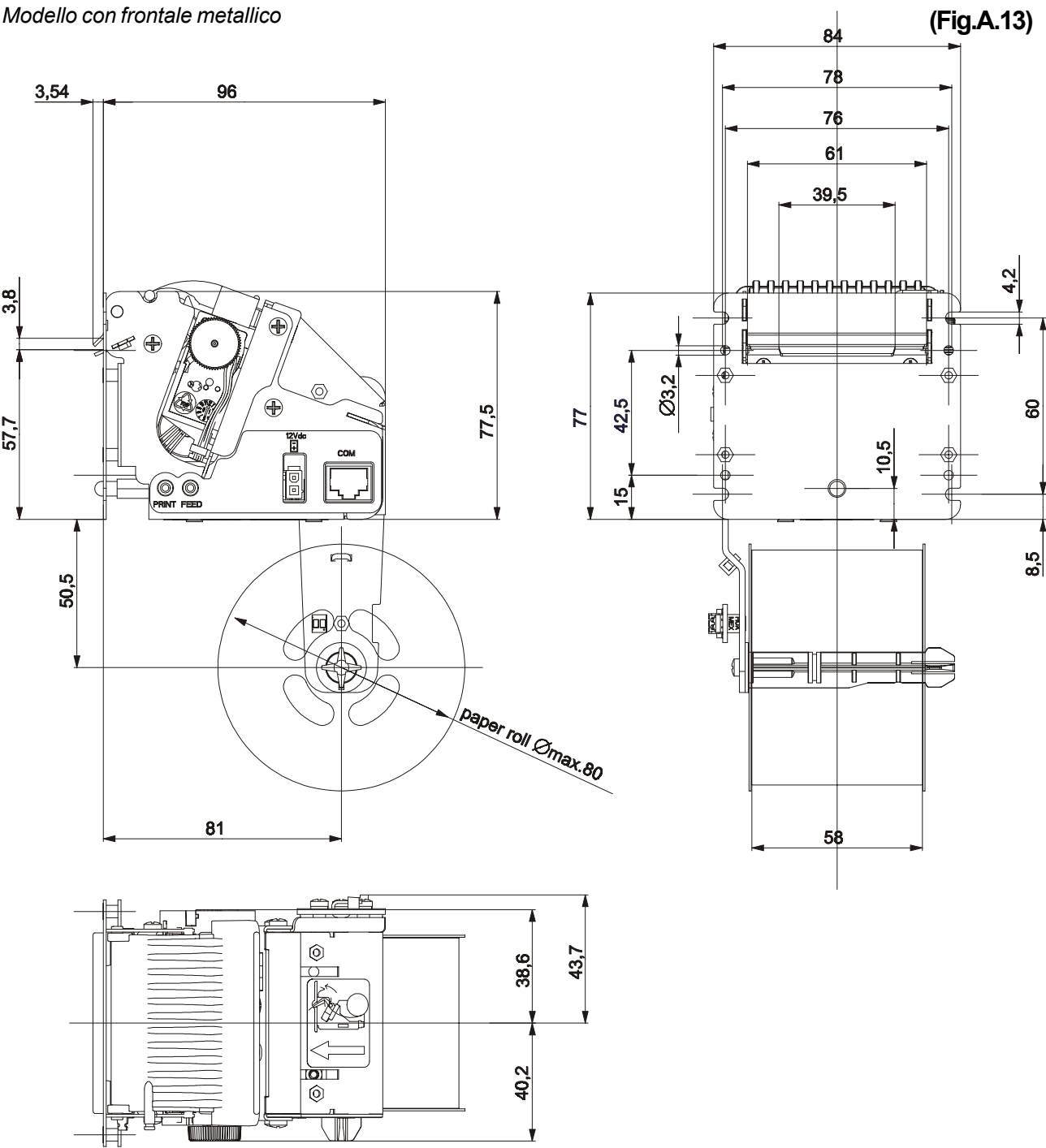
### Dimensioni stampante con staffa porta rotolo

### Modello con frontale plastico

**(Fig.A.12)**



Modello con frontale metallico



A.2 RICAMBI

Rotoli carta

RCT35X70-AF	Modello 35mm Rotolo carta termica Antifrode
RCT35X70-RS	Modello 35mm Rotolo carta termica Retrostampata
RCT58X70-RS	Modello 58mm Rotolo carta termica Retrostampata
	Con l'acquisto di n° 2000 rotoli vi è la possibilità di personalizzare il retro della carta con un logo

(Tab.A.4)

(Tab.A.5)